#### **DESCRIPTION**

# METHODS AND COMPOSITIONS FOR INCREASING THE EFFICACY OF BIOLOGICALLY-ACTIVE INGREDIENTS

# **BACKGROUND OF THE INVENTION**

## 1. Field of the Invention

The present invention relates generally to the fields of cellular biology. More particularly, it concerns methods and compositions for the modulation of cellular sensitivity to biologically-active agents.

# 2. Description of Related Art

#### 10 Transport Processes

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Cells can use a phenomenon called symport to move soluble products across biological membranes. Symport is a form of coupled movement of two solutes in the same direction across a membrane by a single carrier. Examples of proton and sodium-linked symport systems are found in nearly all living systems. The energetics of the transport event depend on the relative size and electrical nature of the gradient of solutes.

Transport processes have been classified on the basis of their energy-coupling mechanisms. Currently there are four classifications: (1) Primary Active Transport which uses either a chemical, light or electrical energy source, (2) Group Translocation which uses chemical energy sources, (3) Secondary Active Transport which uses either a sodium or proton electrochemical gradient energy source, and (4) Facilitated Diffusion which does not require an energy source (Meyers, 1997). The present invention is related to transport molecules belonging to the first class of transport processes, primary active transport, and therefore, this type of transport will be discussed in further detail.

Primary active transport refers to a process whereby a "primary" source of energy is used to drive the active accumulation of a solute into or extrusion of a solute from a cell. Transport proteins include P-type ATPases and ABC-type ATPases, as well as V-type and E-type ATPases. These types of transport systems are found in both eukaryotes and prokaryotes. The bacterial ABC-type transporters, which are ATP-driven solute pumps, have eukaryotic counterparts. Additionally, many transmembrane solute transport proteins exhibit a common

structural motif. The proteins in these families consist of units or domains that pass through the membrane six times, each time as an  $\alpha$ -helix. This has led to the suggestion that many transport proteins share a common evolutionary origin, but this is not true of several distinct families of transport proteins.

Numerous structurally distinct bacterial permeases, as well as several homologous eukaryotic transport systems, share a common organization (Meyers, 1997). Two hydrophilic domains or proteins function to couple ATP hydrolysis in the cytoplasm to activate substrate uptake or efflux, and two hydrophobic domains or proteins function as the transmembrane substrate channels. These proteins or protein domains constitute what is referred to as the ABC (ATP-binding cassette) superfamily. Either the two hydrophilic domains or proteins or the two hydrophobic domains or proteins (or both) may exist either as heterodimers or homodimers. If, as in most bacterial systems, each of these constituents is a distinct protein, then either two, three, or four genes will code for them, depending on whether both are homodimers, one is a homodimer and one is a heterodimer, or both are heterodimers, respectively. The best characterized of the eukaryotic proteins included in this family are the multidrug-resistance (MDR) transporter and the cystic fibrosis related chloride ion channel of mammalian cells (cystic fibrosis transmembrane conductance regulator or CFTR) (Meyers, 1997).

#### Multidrug Resistance

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Multidrug resistance (MDR) is a general term that refers to the phenotype of cells or microorganisms that exhibit resistance to different, chemically dissimilar, cytotoxic compounds. MDR can develop after sequential or simultaneous exposure to various drugs. MDR can also develop before exposure to many compounds to which a cell or microorganism may be found to be resistant. MDR which develops before exposure is frequently due to a genetic event which causes the altered expression and/or mutation of an ATP-binding cassette (ABC) transporter (Wadkins and Roepe, 1997). This is true for both eukaryotes and prokaryotes.

One prominent member of the ABC family, P-glycoprotein (Pgp; also known as multidrug resistance protein or MDR1), which is a plasma-membrane glycoprotein that confers a multidrug resistance (MDR) phenotype on cells, is of considerable interest because it provides one mechanism of possibly inhibiting resistance in tumor cells to chemotherapeutic agents (Senior et al., 1995). Pgp is a single polypeptide of ~1280 amino acids with the typical ABC transporter structure profile. Studies have shown that over expression of Pgp is responsible for

the ATP-dependent extrusion of a variety of compounds, including chemotherapeutic drugs, from cells (Abraham et al., 1993).

Over one-hundred ABC transporters have been identified in species ranging from Escherichia coli to humans (Higgins, 1995). For example, the bacteria Lactococcus lactis expresses an ABC transporter, LmrA, which mediates antibiotic resistance by extruding amphiphilic compounds from the inner leaflet of the cytoplasmic membrane (Van Veen et al., 1998). Furthermore, over-expression of LmrA can confer MDR in human lung fibroblasts and LmrA has similar molecular and biochemical properties to Pgp. This demonstrates that bacterial LmrA and Pgp are functionally interchangeable. Additionally, the plant Arabidopsis thaliana encodes an ATP transporter, AtPGP-1, which is a putative Pgp homolog (Dudler and Hertig, 1992). Similarly, the yeast Saccharomyces cerevisiae equivalent of Pgp, STS1 (Bissinger and Kucher, 1994) has been cloned and shown to confer multidrug resistance when over-expressed in yeast, as has the yeast Pdr5p (Kolacskowski et al., 1996). Taken together, these results suggest that this type of multidrug resistance efflux pump is conserved from bacteria to humans.

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While various theories of ABC transporter function have become popular, there is still no precise molecular-level description for the mechanism by which over-expression lowers intracellular accumulation of drugs, in particular how Pgp lowers intracellular accumulation of chemotherapeutic drugs. However, it has been shown that Pgp over-expression also changes plasma membrane electrical potential and intracellular pH which could potentially greatly affect the cellular flux of a large number of compounds to which Pgp confers resistance (Wadkins and Roepe, 1997). Also included in the ABC transporter superfamily are the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) and the Sulfonyl Urea Receptor (SUR). CFTR and SUR are expressed in the lung epithelium and the β cells of the pancreas, respectively, as well as in other tissues. CFTR functions as a low conductance ATP and cyclic AMP-dependent C1 channel that also appears to have additional important functions, such as modulation of epithelial NA<sup>+</sup> regulation of outwardly rectified chloride channels (Wadkins and Roepe, 1997).

Mutations in the CFTR gene produce altered CFTR proteins with defects in CFTR function, leading to profound alterations in epithelial salt transport and altered mucous properties in cystic fibrosis patients that result in chronic lung infections associated with the disease. *Id.* SUR is triggered by sulfonyl urea drugs to depolarize pancreatic P cells that leads to Ca<sup>2+</sup> influx, which stimulates fusion of insulin containing vesicles to the plasma membrane. Id. An ATP

transporter hypothesis has been suggested for Pgp, CFTR and SUR which theorizes that these ABC transporters function as ATP transport channels (Abraham et al., 1993; Schweibert, 1995; Al-Awgati, 1995). The ATP channel hypothesis, however, has been viewed with skepticism. This is partly due to the inability to show the same results with preparations including purified and reconstituted CFTR, suggesting that the ATP conductance that was originally observed may have been mediated by another protein, not present in the purified system, that is influenced by CFTR (Wadkins and Roepe). There has been no such negative data reported with respect to the ATP charnel hypothesis for Pgp or SUR, but the controversy over CFTR has raised doubt for Pgp and SUR as well.

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In support of the ATP channel hypothesis (Huang et al., 1992) have suggested that extracellular ATP leads to elevations in pH, and Weiner et al., (1986) have suggested that extracellular ATP may regulate Na/H<sup>+</sup> exchange in Ehrlich ascites tumor cells. It has also been observed that changes in Pgp levels affects pH and plasma membrane electrical potentials which could be connected to recent observations suggesting the involvement of ATP transport in MDR.

Additionally, Abraham *et al.*, (1993) have reported that the addition of extracellular ATP to MDR cell lines confers sensitivity to drugs abolishing MDR. The data for this effect were not presented in the article and no further explanation was given for this phenomenon. Furthermore, there have been no subsequent publications addressing or explaining this effect.

Furthermore, Ujhazy et al., (1996) have shown that ecto-5'-nucleotidase is up-regulated in certain MDR cell lines. Ecto-5'-nucleotidase is the final enzyme in the extracellular pathway for salvage of adenosine from phosphorylated purines (Zimmerman, 1992). The proposed hypothesis for the involvement of ecto-5'-nucleotidase in drug resistance considers its role in the maintenance of intracellular ATP pools through the adenosine salvage pathway (Ujhazy et al., 1996). Ecto-5'-nucleotidase specifically acts in adenosine salvage pathways, converting AMP to adenosine which is more readily taken up by the cell and utilized as a precursor for ATP production. Therefore, ecto-5'-nucleotidase may be acting in certain MDR cell lines as a mechanism by which the cell circumvents the loss of ATP (due to up-regulated transport proteins which possibly form ATP transport channels) by creating higher levels of adenosine from which the cell can produce ATP. Correspondingly, 63% of MDR cell line variants tested expressed ecto-5'- nucleotidase. These observations suggested that a salvage mechanism for extracellular nucleotides may be another way by which certain MDR cells counterbalance their ATP losses

from efflux induced by the over-expression of ABC transporters involved in MMR. Consistent with this hypothesis, inhibitors of ecto-5'-nucleotidase conferred sensitivity to certain drugs in MDR cell lines which over-express the ecto-5'-nucleotidase.

It is also interesting to note that yeast, which do not have an adenosine salvage pathway (Boyum and Guidotti, 1997), do contain a PGP-like gene called STS 1 (Bissinger and Kucher, 1994). Therefore, since the adenosine salvage pathway is unlikely to be involved in yeast multidrug resistance, other mechanisms are likely to exist.

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Recent reports have confirmed the existence of ATP in the extracellular matrix (ECM) of both multicellular organisms and unicellular organisms (Sedaa et al., 1990; Boyum and Guidotti, 1997), respectively. However, no such reports are available which suggest the existence of ATP in the ECM of plants before the present invention. These reports have prompted further investigations of the fate of ATP outside the cell. One of the largest gradients in biological systems is that of ATP. It is a million-fold more concentrated inside the cell than outside. Phosphatases are enzymes with the ability to hydrolyze ATP and to a lesser extent, the beta phosphate of ADP (Plesner, 1995). Extracellular phosphatases are generally referred to as ectophosphatases. A type of ectophosphatase is ecto-pyrase. Given reports that show the existence of extracellular ATP, one observation regarding ectoapyrase is that it hydrolyzes the extracellular ATP. In fact, work in animal systems has shown that apyrases hydrolyze ATP in the ECM as part of the adenosine salvage pathway conjointly with ecto-5' ectonucleotidase (Che, 1992).

What has been lacking in the art are particular methods and compositions that allow modification of cellular ATP gradients to increase the uptake of cytotoxic agents by cells. It would be particularly useful to identify methods and compositions that result in increased uptake by cells of herbicides, antibiotics, fungicides, insecticides, chemotherapeutics and other active ingredients. This may result in increased efficacy in the use of such agents, as well as allow use of lower concentrations of such agents. This may provide cost, health and environmental benefits. This may also allow effective treatment of MDR cells, such as antibiotic-resistant bacteria or chemotherapy-resistant tumor cells.

## **SUMMARY OF THE INVENTION**

In one aspect, the invention provides a cytotoxic composition comprising an ectophosphatase inhibitor and a cytotoxic agent set forth in Table 1. In one embodiment of the invention, the cytotoxic agent is selectively cytotoxic. In other embodiments, the cytotoxic composition may be further defined as a herbicidal composition and the cytotoxic agent a herbicide, may be further defined as an insecticidal composition and the cytotoxic agent an insecticide, may be further defined as a fungicidal composition and the cytotoxic agent a fungicide and/or may be further defined as an antibiotic composition and the cytotoxic agent an antibiotic. In an antibiotic composition, the antibiotic may be from a class selected from the group consisting of Beta-lactam, Semisynthetic penicillin, Clavulanic Acid, Monobactams, Carboxypenems, Aminoglycosides, Glycopeptides, Lincomycins, Macrolides, Polyenes, Rifamycins, Tetracyclines, Semisynthetic, tetracycline and Chloramphenicol. In certain embodiments of the invention, the ectophosphatase inhibitor may be selected from the group consisting of the compounds of formulae I-XX.

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In another aspect, the invention provides a plant growth regulator composition comprising an ectophosphatase inhibitor and a plant growth regulator agent set forth in Table 1. In one embodiment of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulae I-XX.

In yet another aspect, the invention provides a chemotherapeutic composition comprising an ectophosphatase inhibitory compound and a chemotherapeutic agent. In one embodiment of the invention, the chemotherapeutic agent is a chemotherapeutic agent set forth in Table 3. In further embodiments of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulae I-XX.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a plant, comprising contacting said plant with an effective amount of a herbicidal composition provided by the invention. The method may be carried out with potentially any plant, including a monocotyledonous plant or a dicotyledonous plant.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a tumor cell, comprising contacting said tumor cell with an effective amount of a chemotherapeutic composition of the invention. In the method, contacting may comprise

administering the composition to a patient in need thereof, wherein the patient comprises the tumor cell.

In still yet another aspect, the invention provides a method of killing or inhibiting the growth of a target cell, comprising contacting said cell with a composition formulated therefore. In certain embodiments of the invention, the cell may be a fungal cell, bacterial cell, or insect cell.

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In still yet another aspect, the invention provides a method of increasing the effectiveness of a cytotoxic agent, comprising admixing said cytotoxic agent with an ectophosphatase inhibitor, wherein the cytotoxic agent is selected from the group set forth in Table 1. In certain embodiments of the invention, the cytotoxic agent may be further defined as a herbicide, insecticide, fungicide, and an antibiotic. Examples of antibiotics include those from the following classes: Beta-lactam, Semisynthetic penicillin, Clavulanic Acid, Monobactams, Carboxypenems, Aminoglycosides, Glycopeptides, Lincomycins, Macrolides, Polyenes, Rifamycins, Tetracyclines, Semisynthetic, tetracycline and Chloramphenicol. In one embodiment of the invention, a cytotoxic agent is a chemotherapeutic agent, for example, selected from the group set forth in Table 3.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

The following drawings form part of the present specification and are included to further demonstrate certain aspects of the present invention. The invention may be better understood by reference to one or more of these drawings in combination with the detailed description of specific embodiments presented herein.

- FIGs. 1A-1C Expression of apyrase in pea and in transgenic plants (FIG. 1A) Immunoblot analysis of subcellular fractions from etiolated pea plants. (FIG. 1B) Top, the total phosphate accumulated in the shoots of three independent transgenic plants. Bottom, a corresponding Immunoblot performed on protein from ECM of wild-type and transgenic plants. (FIG. 1C) Assay of phosphatase activity in the ECM fraction of OEl and wild-type.
- FIGs. 2A-C Transport of the products of ATP hydrolysis by transgenic plants overexpressing apyrase and by wild-type plants.

FIGs. 3A-D Conference of resistance to cycloheximide (FIG. 3A, B) and nigencin (FIG. 3C, D) in wild-type and ectophosphatase deficient yeast over-expressing the *Arabidopsis* plant ABC transporter, AtPGP-1.

- FIGs. 4A-B-3 Conference of resistance to cycloheximide (FIG. 4A) and cytokinin (FIG. 4B-1-FIG. 4B-3) in *Arabidopsis* plants over-expressing either the ectophosphatase, apyrase, or the ABC transporter, AtPGP-1.
  - FIGs. 5A-B Graph showing the growth turbidity of YMR4 yeast over-expressing the *Arabidopsis* plant ABC transporter AtPGP-1 grown in cycloheximide (FIG. 5A) or nigericin (FIG. 5B).
- FIG. 6 Graph showing germination rate of *Arabidopsis* plants grown in the presence of cycloheximide which over-express either the ectophosphatase, apyrase, or the ABC transporter AtPGP-1.
  - FIG. 7 Graph of steady-state levels of ATP in the extracellular fluid of wildtype yeast cells grown in the presence or absence of glucose and in the presence or absence of over-expression of the *Arabidopsis* plant ABC transporter, AtPGP-1.

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- FIG. 8 Graph showing that over-expression of *Arabidopsis* plant ABC transporter, AtPGP-1, in yeast can double the steady-state levels of ATP in the extracellular fluid.
- FIG. 9 Graph showing that a yeast mutant, YMR4, that has a deficient ectophosphatase, accumulates ATP in the extracellular fluid and the over-expression of AtPGP-1 increases the accumulation of ATP.
- FIG. 10 Graph showing results of a pulse-chase experiment in either wildtype yeast cells or a yeast mutant, YMR4, which is deficient in ectophosphatase activity, in the presence and absence of over-expression of *Arabidopsis* plant ABC transporter, AtPGP-1, demonstrating an early differential ATP efflux of cells over-expressing AtPGP-1.
- FIG. 11 Graph of ATP levels on the surface of leaves of *Arabidopsis* plants over-expressing AtPGP-1 (MDR 1).
  - FIG. 12 Effects of phosphatase inhibitor in wild-type and AtPGP-1 (MDRI) overexpressing *Arabidopsis* plants.

FIG. 13 Growth effects of cycloheximide and extracellular ATP on wildtype and MDR1 overexpressing *S. cerevisiae* yeast cells which have either never seen cycloheximide or which have been previously selected in cycloheximide.

FIG. 14 Growth effects of cycloheximide, adenosine and phosphate on wildtype and AtPGP-1 overexpressing *S. cerevisiae* yeast cells.

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# **DETAILED DESCRIPTION OF THE INVENTION**

The present invention provides methods and compositions for modulating the sensitivity of cells to cytotoxic compounds and other active agents. In accordance with the invention, such modulation may be carried out by modifying cellular ATP gradients, for example, by contacting a plant, animal, yeast or bacterial cell with an ectophosphatase inhibitor contemporaneously with a cytotoxic agent or other active ingredient, or combinations thereof. As used herein, the term "ectophosphatase inhibitor" refers to a compound that has the ability to specifically inhibit ectophosphatase activity. A "cytotoxic agent" is a compound capable of selectively or non-selectively killing or inhibiting the growth of a cell, including antibiotics, fungicides, herbicides, insecticides and chemotherapeutic agents.

The efficacy of one or more cytotoxic agents may be increased in accordance with the invention by reducing the ATP gradient across biological membranes, which is effectuated through the modulation of an ectophosphatase either alone or together with an ABC transporter molecule. Modulation of resistance to a cytotoxic compound as described herein is useful, for example, in increasing the sensitivity of plants to herbicides; reducing drug resistance in tumor cells for improved chemotherapy applications; and reducing resistance to antibiotics, antifungal agents, insecticides and other cytotoxic agents for the treatment of infections and disease. Provided by the invention are specific combinations of ectophosphatase inhibitors and cytotoxic compounds or other active ingredients that may be used in these applications.

In accordance with certain embodiments of the invention, the manipulation of extracellular ATP levels to alter ATP gradient across biological membranes in cells by inhibition of ectophosphatases results in diminishing or removing the ATP gradient that may otherwise prevent access of cytotoxic agents to the cell. In some instances, access may be minimized by

efflux of cytotoxic agents from the cell. This efflux is likely effectuated through the "piggy-back" efflux of drug molecules with ATP, a phenomenon known as symport.

In accordance with the invention, inhibitors of ectophosphatases may be administered contemporaneously with cytotoxic agents, including herbicides, antibiotics, fungicides, insecticides and other active ingredients, as well as chemotherapeutics. By "contemporaneously," it is meant within sufficient temporal proximity that the increased sensitivity of a cell to the relevant cytotoxic agent may be achieved in combination with contacting the cell with the agent. In certain embodiments of the invention, ectophosphatase inhibitors are used as adjuvants with cytotoxic agents, that is, are admixed with one or more cytotoxic agents or other active ingredients.

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It is therefore an object of the present invention to provide inhibitors of ectophosphatases in physiological compositions for modulating cell growth and/or survival, including, but not limited to, MDR cells. Such physiological compositions may comprise a small molecule capable of inhibiting an ectophosphatase and a physiologically acceptable carrier or diluent together with a therapeutic agent. As used herein, the term "physiologically acceptable carrier or diluent" means any and all solvents, dispersion media, antibacterial and antifungal agents, microcapsules, liposomes, cationic lipid carriers, isotonic and absorption delaying agents and the like which are not incompatible with the ectophosphatase inhibitors. The use of such media and agents for physiologically active substances is well known in the art. Supplementary active ingredients may also be incorporated into the compositions.

In certain embodiments, only an endogenous ectophosphatase is inhibited. In particular embodiments of the invention, the ectophosphatase is human apyrase. In other embodiments, the ectophosphatase is a plant, bacterial, fungal or yeast ectophosphatase.

The inhibition of ectophosphatases is useful in increasing sensitivity to cytotoxic agents and/or reduction of drug resistance in cells. In one embodiment of the invention, the inhibition of ectophosphatases results in a loss of resistance to a cytotoxic agent. In another embodiment of the invention, administration of such inhibitory molecules is in conjunction with the administration of chemotherapeutic agents in tumor cells.

Using high throughput screens, ectophosphatase inhibitors may be isolated, for example, by screening a small molecule library (e.g. a combinatorial library) for inhibitory activity to

ectophosphatase (e.g. apyrase activity). Once ectophosphatase inhibitory molecules are isolated from such a screen, the inhibitors may be further tested for their ability to specifically inhibit the ATPase activity of the ectophosphatase.

Exemplary ectophosphatase inhibitory molecules for use with the current invention are preferably chemically stable and physiologically active including, but not limited to, the compounds of formulae I-XX.

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Formula IV

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Formula VII

Formula IX

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Formula XII

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Preliminary pharmacophore studies revealed that the small molecules represented by Formulae I through XX fall into five classes of compounds (sulfanamides, guanidines,

aminothiazoles, thioketones and benzamides). Most of these chemical classes are found in other physiologically-active compounds, including those having pharmaceutical and therapeutic use. For example, sulfanimides are widely used as antibiotics. Additionally, studies for the isolation of small molecules capable of reversing MDR have described molecules belonging to two of the classes of molecules of the present invention (Medina et al. 1998; Dhamant et al., 1992). The molecules described by Medina et al. have been shown to affect MDR and the mode of action of the molecules is believed to involve tubulin interactions. The thiazine derivatives described by Dhamant et al. reverse the resistance in tumor cells to vincristine.

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The ectophosphatase inhibitory molecules are useful in increasing the activities of various agents by increasing the availability of the agents to cells. In certain embodiments of the invention, this may comprise reversing multidrug resistance (MDR) in an organism. In other embodiments, this may be achieved with a cell that does not exhibit MDR. Such cells may or may not comprise an up-regulated ectophosphatase

MDR reversal and/or increasing of sensitivity to a cytotoxic agent in cells may be shown by growing the cells in the presence of relevant drugs and in the presence and absence of the inhibitor. Cells which cannot grow in the presence of a drug in the presence of an ectophosphatase inhibitor, have a reversal in MDR and/or increase in sensitivity to the agent.

The ectophosphatase inhibitory compositions of the present invention are useful in reversing drug resistance in mammalian cell lines grown in the presence of a drug (e.g. a chemotherapeutic agent). Analysis of sensitivity to a chemotherapeutic composition in mammalian cells may be shown, for example, by using the fluorescent compound calcein-AM. Esterases present in cells cleave the aceto-methoxy ester (AM) from the calcein-AM and liberate calcein. Calcein is a fluorescent compound which is excitable by the 488 nm laser of a FACS Caliber flow cytometer (Becton Dickenson, Franklin Lakes, N.J.), while the uncleaved calcein-AM is not excitable. Wild type cells incubated in the presence of calcein-AM show a high level of fluorescence while MDR state cells, which efflux the calcein-AM faster than the cellular esterases can cleave it, do not show a high level of fluorescence. The mammalian cells can be tested for the reversal of MDR with ectophosphatase inhibitors by the amount of calcein fluorescence detected in the cells.

Specificity of ectophosphatase inhibitors may be tested with the screening assays described herein. Inhibitors can be tested for their ability to inhibit acid phosphatases, alkaline

phosphatases, myosin phosphatases and the luciferase ATPase. The assays may be performed using techniques known in the art.

In one embodiment of the invention, the ectophosphatase is an apyrase and the ectophosphatase inhibitor is a molecule selected from among molecules represented by the Formulae I through XX. In another embodiment, the ectophosphatase is apyrase and the ectophosphatase inhibitor is a molecule selected from among molecules represented by the Formulae I through V.

In a further embodiment of the invention, the ectophosphatase is apyrase and the ectophosphatase inhibitor is a molecule represented by Formula XX. Formula XX is suramin or 8,8'[Carbonylbis[imino-3, 1 -phenylenecarbonylimino(4-methyl-3, 1 -phenylene)carbonylimino]]bis-1,3,5-naphthalenetrisulfonic acid. Suramin has been reported as a potent non-competitive inhibitor of ectoapyrase activity associated with the plasma membrane of cholinergic nerve terminal of *Torpedo marmorata* electric organs (Marti et al., 1996).

It is contemplated that in certain embodiments of the invention an ectophosphatase inhibitor may inhibit an ectophosphatase active on the outer membrane of an organelle of a eukaryotic cell. In this manner, contacting the cell with the ectophosphatase inhibitor may be used to decrease the ATP gradient across the organelle and thereby facilitate uptake of a biologically active agent by the organelle.

#### 20 I. Formulations

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Ectophosphatase inhibitor compositions, which may be acidic or basic in nature, can form a wide variety of salts with various inorganic and organic bases or acids, respectively. These salts may be physiologically acceptable for *in vivo* administration in mammals, including humans, as well as formulations for *ex vivo* applications, including agricultural use. Salts of acidic compounds are readily prepared by treating the acidic compound with an appropriate molar quantity of the chosen inorganic or organic base in an aqueous or suitable organic solvent and then evaporating the solvent to obtain the salt. Salts of basic compounds can be obtained similarly by treatment with the desired inorganic or organic acid and subsequent solvent evaporation and isolation. The skilled artisan can produce salts of ectophosphatase inhibitors using techniques known in the art.

The skilled artisan readily can determine the amount of the ectophosphatase inhibitor that is required to inhibit ectophosphatase by measuring ATPase activity in the presence and absence of varying amounts of the inhibitor. Phosphatase activity can be determined by assessing the dephosphorylation of ATP and liberation of phosphate as described herein. Additionally, parameters may be measured that are known to be associated with ectophosphatase activity to determine whether the molecule has ectophosphatase inhibitory activity. For example, ectophosphatase inhibitory activity may be measured in cells (e.g., yeast, plant, bacterial, mammalian, and tumor cell lines) by assessing the loss of resistance to drugs. Furthermore, the ectophosphatase inhibitory molecules of the present invention may be tested for specific inhibitory activity to ectophosphatases versus general phosphatases or for specific inhibitory activity for a particular ectophosphatase activity (e.g., apyrase).

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The present invention also provides physiologically acceptable compositions comprising an ectophosphatase inhibitor, a cytotoxic agent or other active ingredient and a physiologically acceptable carrier or diluent. In certain embodiments of the invention, as set forth in detail below, compositions are provided comprising one or more ectophosphatase inhibitor and one or more plant growth regulator, herbicide, fungicide, insecticide, antibiotic, chemotherapeutic agent or other active compound. In a further embodiment of the invention, the ectophosphatase is selected from the compounds of formulae I-XX in the appropriate carriers, diluents or other active ingredients.

The use of physiologically acceptable carriers or diluents is well known in the art. The techniques of preparation of pharmaceutical compositions are generally well known in the art as exemplified by Remington's Pharmaceutical Sciences, 16th Ed. Mack Publishing Company, 1980, which reference is specifically incorporated herein by reference in its entirety. Formulations of the present invention may be stable under the conditions of manufacture and storage and must be preserved against contamination by microorganisms.

The physiological forms of the compositions of the invention suitable for administration include sterile aqueous solutions or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. Typical carriers include a solvent or dispersion medium containing, for example, water buffered aqueous solutions (i.e., biocompatible buffers), ethanol, polyols such as glycerol, propylene glycol, polyethylene glycol,

suitable mixtures thereof, surfactants, and vegetable oils. Isotonic agents such as sugars or sodium chloride may be incorporated into the subject compositions.

Pharmaceutical compositions in accordance with the invention may be used by themselves or in combination with other forms active ingredients or therapeutics. One embodiment of the invention provides formulations for parenteral administration, e.g., formulated for injection via the intravenous, intramuscular, sub-cutaneous or other such routes. Typically, such compositions can be prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for using to prepare solutions or suspensions upon the addition of a liquid prior to injection also can be prepared; and the preparations also can be emulsified.

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Solutions of the active compounds as free base or pharmacologically acceptable salts can be prepared in water suitably mixed with a surfactant, such as hydroxypropylcellulose. Dispersions also can be prepared in glycerol, liquid polyethylene glycols, and mixtures thereof and in oils. Under ordinary conditions of storage and use, these preparations contain a preservative to prevent the growth of microorganisms.

The pharmaceutical forms suitable for injectable use include sterile aqueous solutions or dispersions; formulations including sesame oil, peanut oil or aqueous propylene glycol; and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. In all cases, the form must be sterile and must be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms, such as bacteria and fungi.

Carriers used also can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), suitable mixtures thereof, and vegetable oils. The proper fluidity can be maintained, for example, by the use of a coating, such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. The prevention of the action of microorganisms can be brought about by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, sorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars or sodium chloride. Prolonged absorption of the injectable compositions can be brought about by the use in the compositions of agents delaying absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions are prepared by incorporating the active compounds in the required amount in the appropriate solvent with various of the other ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the various sterilized active ingredients into a sterile vehicle which contains the basic dispersion medium and the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum-drying and freeze-drying techniques which yield a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

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Other modes of administration can also find use with the invention. For instance, pharmaceutical compounds may be formulated in suppositories and, in some cases, aerosol and intranasal compositions. For suppositories, the vehicle composition will include traditional binders and carriers such as polyalkylene glycols or triglycerides. Such suppositories may be formed from mixtures containing the active ingredient in the range of about 0.5% to about 10% (w/w), preferably about 1% to about 2%.

Ectophosphatase inhibitors will commonly comprise from less than 1% to about 10% w/v of a composition with an active ingredient, including about 1%, 3%, 5%, &% and about 10%. Greater or lesser amounts of the ectophosphatase inhibitors may similarly be used. Desired concentrations may readily be determined by serial preparation and assay of compositions comprising varying amounts of the selected ectophosphatase inhibitor compound. For example, in the case of herbicidal compositions, a series of test compositions comprising from about 0.1% to about 25% w/v of an ectophosphatase inhibitor together with a test herbicide may be analyzed by leaf painting and comparison of the results. Safety, efficacy, cost and other concerns may each be taken into account in selecting the desired concentrations. Alternatively, pharmaceutical compositions may be analyzed using *in vitro* or *in vivo* models.

Oral compositions may be prepared in the form of solutions, suspensions, tablets, pills, capsules, sustained release formulations, or powders. These compositions can be administered, for example, by swallowing or inhaling. Where a pharmaceutical composition is to be inhaled, the composition will preferably comprise an aerosol. Exemplary procedures for the preparation of aqueous aerosols may be found in U.S. Patent No. 5,049,388, the disclosure of which is specifically incorporated herein by reference in its entirety. Preparation of dry aerosol

preparations are described in, for example, U.S. Patent No. 5,607,915, the disclosure of which is specifically incorporated herein by reference in its entirety.

Also useful is the administration of the compounds described herein directly in transdermal formulations with permeation enhancers such as DMSO. These compositions can similarly include any other suitable carriers, excipients or diluents. Other topical formulations can be administered to treat certain disease indications. For example, intranasal formulations may be prepared which include vehicles that neither cause irritation to the nasal mucosa nor significantly disturb ciliary function. Diluents such as water, aqueous saline or other known substances can be employed with the subject invention. The nasal formulations also may contain preservatives such as, but not limited to, chlorobutanol and benzalkonium chloride. A surfactant may be present to enhance absorption of the subject compounds by the nasal mucosa.

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Upon formulation, solutions may be administered in a manner compatible with the dosage formulation and in such amount as is therapeutically effective. The formulation of choice can be accomplished using a variety of excipients including, for example, pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, sodium saccharin cellulose, magnesium carbonate, and the like. Typically, pharmaceutical compositions will contain from less than 1% to about 95% of the active ingredient, preferably about 10% to about 50%. Preferably, between about 10 mg/kg patient body weight per day and about 25 mg/kg patient body weight per day will be administered to a patient, including a human patient. The frequency of administration will be determined by the care given based on patient responsiveness. Other effective dosages can be readily determined by one of ordinary skill in the art through routine trials establishing dose response curves.

Regardless of the mode of administration, suitable pharmaceutical compositions in accordance with the invention will generally include an amount of active ingredient admixed with an acceptable pharmaceutical diluent or excipient, such as a sterile aqueous solution, to give a range of final concentrations, depending on the intended use. The techniques of preparation are generally well known in the art as exemplified by Remington's Pharmaceutical Sciences, 16th Ed. Mack Publishing Company, 1980, which reference is specifically incorporated herein by reference in its entirety. It should be appreciated that endotoxin contamination should be kept minimally at a safe level, for example, less that 0.5 ng/mg protein. Moreover, for human

administration, preparations should meet sterility, pyrogenicity, general safety and purity standards as required by FDA Office of Biological Standards.

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The therapeutically effective doses are readily determinable using an animal model. For example, experimental animals exhibiting a target infection or other ailment are frequently used to optimize appropriate therapeutic doses prior to translating to a clinical environment. Such models are known to be very reliable in predicting effective therapies. In certain embodiments, it may be desirable to provide a continuous supply of therapeutic compositions to the patient. For intravenous or intraarterial routes, this is accomplished by drip system. For topical applications. repeated application would be employed. For various approaches, delayed release formulations could be used that provided limited but constant amounts of the therapeutic agent over and extended period of time. For internal application, continuous perfusion of the region of interest may be preferred. This could be accomplished by catheterization, post-operatively in some cases, followed by continuous administration of the therapeutic agent. The time period for perfusion would be selected by the clinician for the particular patient and situation, but times could range from about 1-2 hours, to 2-6 hours, to about 6-10 hours, to about 10-24 hours, to about 1-2 days, to about 1-2 weeks or longer. Generally, the dose of the therapeutic composition via continuous perfusion will be equivalent to that given by single or multiple injections, adjusted for the period of time over which the injections are administered. It is believed that higher doses may be achieved via perfusion, however.

Therapeutic kits comprising the compositions described herein are also provided by the invention. Such kits will generally contain, in suitable container means, a pharmaceutically or agriculturally acceptable formulation of the active ingredient. The kits also may contain other pharmaceutically acceptable formulations, such as an antiinfective agent, including an insecticide, antifungal or antibacterial, as well as a herbicide.

The kits may have a single container means that contains the active ingredient, with or without any additional components, or they may have distinct container means for each desired agent. When the components of the kit are provided in one or more liquid solutions, the liquid solution is an aqueous solution, with a sterile aqueous solution being particularly preferred. However, the components of the kit may be provided as dried powder(s). When reagents or components are provided as a dry powder, the powder can be reconstituted by the addition of a suitable solvent. It is envisioned that the solvent also may be provided in another container

means. The container means of the kit will generally include at least one vial, test tube, flask, bottle, syringe or other container means, into which the active compound, and any other desired agent, may be placed and, preferably, suitably aliquoted. Where additional components are included, the kit will also generally contain a second vial or other container into which these are placed, enabling the administration of separated designed doses. The kits also may comprise a second/third container means for containing a sterile, pharmaceutically acceptable buffer or other diluent.

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The kits also may contain a means by which to administer the compositions to an animal or patient, e.g., one or more needles or syringes, or even an eye dropper, pipette, or other such like apparatus, from which the formulation may be injected into the animal or applied to a afflicted area of the body. The kits of the present invention will also typically include a means for containing the vials, or such like, and other component, in close confinement for commercial sale, such as, e.g., injection or blow-molded plastic containers into which the desired vials and other apparatus are placed and retained.

The invention also provides compositions formulated for agricultural use. Examples of such formulations include herbicidal, fungicidal and plant growth regulator compositions. Specific formulations for plant application are known to those of skill in the art and are described, for example, in U.S. Patent No. 6,242,382, the disclosure of which is specifically incorporated herein by reference in its entirety.

Examples of ingredients that may be included in a composition of the invention formulated for application to plants include surfactants, solid or liquid carriers, solvents and binders. Examples of suitable surfactants that may be used for application to plants include the alkali metal, alkaline earth metal or ammonium salts of aromatic sulfonic acids, e.g., ligno-, phenol-, naphthalene- and dibutylnaphthalenesulfonic acid, and of fatty acids of arylsulfonates, of alkyl ethers, of lauryl ethers, of fatty alcohol sulfates and of fatty alcohol glycol ether sulfates, condensates of sulfonated naphthalene and its derivatives with formaldehyde, condensates of naphthalene or of the naphthalenesulfonic acids with phenol and formaldehyde, condensates of phenol or phenolsulfonic acid with formaldehyde, condensates of phenol with formaldehyde and sodium sulfite, polyoxyethylene octylphenyl ether, ethoxylated isooctyl-, octyl-or nonylphenol, tributylphenyl polyglycol ether, alkylaryl polyether alcohols, isotridecyl alcohol, ethoxylated castor oil, ethoxylated triarylphenols, salts of phosphated triarylphenolethoxylates, lauryl alcohol

polyglycol ether acetate, sorbitol esters, lignin-sulfite waste liquors or methylcellulose, or mixtures of these. Common practice in the case of surfactant use is to include about 0.5 to 25% by weight, based on the total weight of the solid mixture.

Compositions for application to plants may be solid or liquid. Where solid compositions are used, it may be desired to include one or more carrier materials with the active compound. Examples of carriers include mineral earths such as silicas, silica gels, silicates, talc, kaolin, attaclay, limestone, chalk, loess, clay, dolomite, diatomaceous earth, calcium sulfate, magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers such as ammonium sulfate, ammonium phosphate, ammonium nitrate, thiourea and urea, products of vegetable origin such as cereal meals, tree bark meal, wood meal and nutshell meal, cellulose powders, attapulgites, montmorillonites, mica, vermiculites, synthetic silicas and synthetic calcium silicates, or mixtures of these.

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For liquid solutions, water-soluble compounds or salts may be included, such as sodium sulfate, potassium sulfate, sodium chloride, potassium chloride, sodium acetate, ammonium hydrogen sulfate, ammonium chloride, ammonium acetate, ammonium formate, ammonium oxalate, ammonium carbonate, ammonium hydrogen carbonate, ammonium thiosulfate, ammonium hydrogen diphosphate, ammonium dihydrogen monophosphate, ammonium sodium hydrogen phosphate, ammonium thiocyanate, ammonium sulfamate or ammonium carbamate.

Other exemplary components in compositions of the invention include binders such as polyvinylpyrrolidone, polyvinyl alcohol, partially hydrolyzed polyvinyl acetate, carboxymethylcellulose, starch, vinylpyrrolidone/vinyl acetate copolymers and polyvinyl acetate, or mixtures of these; lubricants such as magnesium stearate, sodium stearate, talc or polyethylene glycol, or mixtures of these; antifoams such as silicone emulsions, long-chain alcohols, phosphoric esters, acetylene diols, fatty acids or organofluorine compounds, and complexing agents such as: salts of ethylenediaminetetraacetic acid (EDTA), salts of trinitrilotriacetic acid or salts of polyphosphoric acids, or mixtures of these.

In certain embodiments of the invention, compositions are provided with herbicidal activity which comprise one or more ectophosphatase inhibitor(s) and a herbicide selected from the group consisting of pendimethalin, dicamba, 2,4-D, glufosinate, bentazon, trifluralin, oryzalin, S-metolachlor, nicosulfuron, MSMA, Epic<sup>TM</sup> and Balance<sup>TM</sup>. In one embodiment of the invention, the ectophosphatase inhibitor is selected from the group of the compounds of

formulae I-XX. In certain other embodiments of the invention, compositions with fungicidal activity are provided which comprise one or more ectophosphatase inhibitor(s) in combination with metalaxyl, tebuconazole, propiconazole, chlorothalonil and/or fluconazole.

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Non-limiting examples of combinations of cytotoxic agents and ectophosphatase inhibitors for use in accordance with the invention include: fluconazole with compound(s) of formula II, IX, XIV, XVI, XV, X and/or XII; formula I and/or II with pendimethalin, dicamba, 2,4-D, bentazon, trifluralin, flufenacet/isoxaflutole or isoxaflutole; glufosinate with formula II; oryzalin with formula I; nicosulfuron with formula II; MSMA with formula XVIII; S-metolachlor with formula VI and/or X; metribuzin with formula I, II and/or X; diuron with formula VI; metalaxyl with formula X; chlorothalonil with formula II, X, IX, XI, XVI; propiconazole with formula I, X, XIV and/or XVI; mancozeb with formula I, VI and/or X; captan with formula XIV and/or XVI; tebuconazole with formula I and/or X; imidacloprid with formula II, X, XVIII, XVI and/or XV; and fertilizers such as Nitrogen, Phosphate, Potash --12:12:12 with formula I and/or II.

Also envisioned for use with the invention are compositions comprising combinations of ectophosphatase inhibitors and cytotoxic agents or other active ingredients, including a herbicide, insecticide, antibiotic, fungicide, plant growth regulator and/or hormone. Such combinations may provide enhanced activity of the active ingredient relative to the use of a single ectophosphatase inhibitor. Non-limiting examples of such combinations of ectophosphatase inhibitors include combinations of two, three, four or more ectophosphatase inhibitors selected from formulas I, II, VI, X, XV, XIV, XVI, XVI, XV, and XVIII. Included for illustrative purposes are the following combinations: I and II; I, II and X; XIV and XVI; XVIII and XVI; XVIII, XVI and XV; VI and X; III and X; and III and XVIIII.

Specifically contemplated by the inventors are compositions comprising an ectophosphatase inhibitor and an active ingredient set forth in Table 1.

Table 1: Cytotoxic agents and other active ingredients

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u>Onomour I raino</u>	<u>Orio riumbor</u>	Code	Code	Osc Type	Chemical Class
Bis(2-ethylhexyl) phthalate	117-81-7	3E+05	NA 11	N/A	Alkyl Phthalate
Butyl benzyl phthalate	85-68-7	NA 141	3080	N/A	Alkyl Phthalate
Chlorthal-dimethyl	1861-32-1	78701	179	Herbicide	Alkyl Phthalate
Di-n-octyl phthalate	117-84-0	NA 303	223	N/A	Alkyl Phthalate
Dibutyl phthalate	84-74-2	28001	199	Insect	Alkyl Phthalate
· ·				Repellent	,
Diethyl phthalate	84-66-2	1E+05	3326	N/A	Alkyl Phthalate
Diisodecyl phthalate	NA 1037	NA 132	2513	N/A	Alkyl Phthalate
Dimethyl phthalate	131-11-3	28002	232	Insect	Alkyl Phthalate
				Repellent	
Dioctyl terephthalate	NA 724	NA 133	2528	N/A	Alkyl Phthalate
Diphenyl phthalate	84-62-8	17001	NA 147	N/A	Alkyl Phthalate
Isooctyl phthalate	27554-26-3	NA 483	2262	N/A	Alkyl Phthalate
n-Butyl phthalate	84-74-2	28001	3081	Insecticide	Alkyl Phthalate
Poly glyceryl phthalate ester of	NA 327	NA 608	3331	Adjuvant,	Alkyl Phthalate
coconut oil fatty acid				Soap/Surfactant	
1,3-Dimethyl-1,1,3,3-	22232-20-8	34601	NA 303	N/A	Bis-Carbamate
disiloxanetetrol-1,3-					
bis(dimethylthiocarbamate) 2,3(and 3,4)-Dichlorobenzyl	62046-37-1	272105	DIA 126		2726116
methylcarbamates	02040-37-1	3E+05	NA 136	Insecticide	N-Methyl Carbamate
2,4-Dimethyl-1,3-dithiolane-2-	26419-73-8	4E+05	NA 143	Insecticide	NAC-1-10-1
carboxaldehyde O-	20419-73-8	45703	NA 143	insecticide	N-Methyl Carbamate
(methylcarbamoyl)oxime					
2-(4,5-Dimethyl-1,3-dioxolan-	#########	4E+05	NA 145	Insecticide	N-Methyl Carbamate
2-yl)phenyl-N-		.2.00	111111	Inscondic	11-Wichiyi Carbaniate
methylcarbamate					
2-chloro-4,5-xylyl N-hydroxy-	14357-82-5	2E+05	NA 117	Insecticide	N-Methyl Carbamate
N-methylcarbamate					
2-cyclopentylphenyl	3282-00-6	3E+05	NA 132	Insecticide	N-Methyl Carbamate
methylcarbamate			•		
2-Hydroxyphenyl	10309-97-4	2E+05	NA 118	Insecticide	N-Methyl Carbamate
methylcarbamate				•	
3,4-Dichlorobenzyl	2328-31-6	3E+05	NA 136	Insecticide	N-Methyl Carbamate
methylcarbamate					
3,5-Diisopropylphenyl	330-64-3	4E+05	NA 142	Insecticide	N-Methyl Carbamate
methylcarbamate	16655 00 6	071.05	4074		
3-hydroxycarbofuran	16655-82-6	2E+05	4074	Breakdown	N-Methyl Carbamate
3-iodo-2-propynyl butyl	55406-53-6	1E+05	1020	product	01 0 1
carbamate	33400-33-0	12,03	1938	Fungicide, Wood	Other Carbamate
our summets				Preservative	
3-ketocarbofuran	16709-30-1	NA 176	NA 164	Breakdown	N-Methyl Carbamate
	10,05 50 1	141170	1121 104	product	11-Methyl Carbannate
4-	17702-57-7	4E+05	NA 142	Insecticide	N-Methyl Carbamate
(((Dimethylamino)methylene)a				200000000	2. Monty: Carbaniate
mino)-m-tolyl					
methylcarbamate		]			
4-(Methylamino)-3,5-xylyl	10389-50-1	2E+05	NA 118	Insecticide	N-Methyl Carbamate
methylcarbamate					
4-(Methylformamido)-3,5-	10233-94-0	2E+05	NA 118	Insecticide	N-Methyl Carbamate
xylyl methylcarbamate					<u></u>

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
407 1 111 )		Code	Code		
4-(Methylthio)-m-tolyl methylcarbamate	3566-00-5	6E+05	NA 157	Insecticide	N-Methyl Carbamate
4-Amino-3,5-xylyl methylcarbamate	831-76-5	2E+05	NA 117	Insecticide	N-Methyl Carbamate
5,6,7,8-Tetrahydro-1-naphthyl methylcarbamate	1136-84-1	4E+05	NA 148	Insecticide	N-Methyl Carbamate
6-(and 2)-chloro-3,4-xylyl	0062.05.0		<del></del>		
methylcarbamate	8063-85-2	38701	NA 322	Insecticide	N-Methyl Carbamate
6-Methyl-2-propyl-4- pyrimidinyl dimethylcarbamate	2532-49-2	6E+05	NA 157	N/A	Other Carbamate
Alanycarb	83130-01-2	NA 175	NA 47	Insecticide	Other Carbamate
Aldicarb	116-06-3	98301	575	Insecticide,	N-Methyl Carbamate
			5,5	Nematicide	11-Memyl Carbamate
Aldicarb sulfoxide	1646-87-3	1E+05	2361	Breakdown	N Mothed Cod
		12.03	2301	product	N-Methyl Carbamate
Aldoxycarb	1646-88-4	1E+05	2265	Breakdown	3736 (1 1 6 1
	1010 00 4	15.05	2203		N-Methyl Carbamate
Allyxycarb	6392-46-7	3E+05	NA 133	product	
Aminocarb	2032-59-9			Insecticide	N-Methyl Carbamate
Asulam		44401	2435	Insecticide	N-Methyl Carbamate
	3337-71-1	1E+05	5076	<u>Herbicide</u>	Other Carbamate
Asulam, sodium salt	2302-17-2	1E+05	1746	Herbicide	Other Carbamate
Bendiocarb	22781-23-3	1E+05	1924	Insecticide	N-Methyl Carbamate
Benfuracarb	82560-54-1	1E+05	NA 48	Insecticide	Other Carbamate
Bufencarb	2282-34-0	59302	91	Insecticide	N-Methyl Carbamate
Bufencarb	8065-36-9	59303	NA 485	Insecticide	N-Methyl Carbamate
Bufencarb, component of (with	672-04-8	59301	NA 484	Insecticide	N-Methyl Carbamate
059302)					- vastayi Garbainate
Butacarb	2655-19-8	3E+05	NA 135	Insecticide	N-Methyl Carbamate
Butocarboxim	34681-10-2	NA 175	NA 49	Insecticide	N-Methyl Carbamate
Butoxycarboxim	34681-23-7	1E+05	2201	Insecticide	N-Methyl Carbamate
Butylate	2008-41-5	41405	565	Herbicide	Thiocarbamate
Calcium	5895-18-1	14501	NA 139	Microbiocide	
ethylenebis(dithiocarbamate)		2.002	1111155	Micropiocide	Dithiocarbamate
Carbanolate	671-04-5	2E+05	NA 124	Insecticide	N. M. d. 10. 1
Carbaryl	63-25-2	56801	105		N-Methyl Carbamate
1	03 23 2	50001	105	Insecticide, Plant Growth	N-Methyl Carbamate
				Regulator,	
Carbofuran	1563-66-2	90601	100	Nematicide	
	1505-00-2	90001	106	Insecticide, Nematicide	N-Methyl Carbamate
Carbosulfan	55285-14-8	90602	2182	Insecticide	NAC 1
Chlorbufam	1967-16-4	6E+05	NA 157		N-Methyl Carbamate
Chlorprocarb	23121-99-5	3E+05		Herbicide	Other Carbamate
Chlorpropham	101-21-3		NA 136	Herbicide	Other Carbamate
Cinorpropilant	101-21-3	18301	141	Herbicide,	Other Carbamate
				Plant Growth	
Cloethocarb	51407 60 7	172.0-		Regulator	
Cloemocard	51487-69-5	1E+05	NA 100	Insecticide,	N-Methyl Carbamate
Cufrer al	11006 10 7			Molluscicide	
Cufraneb	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Cycloate	1134-23-2	41301	516	Herbicide	Thiocarbamate
Desmedipham	13684-56-5	1E+05	1748	Herbicide	Bis-Carbamate
Diammonium	##########	14502	NA 140	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)	<u> </u>				
Dichlormate	1966-58-1	3E+05	690	Herbicide	N-Methyl Carbamate
Diethofencarb	87130-20-9	NA 184	NA 183	Fungicide	Other Carbamate
Dimepiperate	61432-55-1	NA 186	NA 185	Herbicide	Thiocarbamate
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Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		
Dimetan	122-15-6	1E+05	NA 112	Insecticide	Other Carbamate
Dimethyl (4-methyl-1,3-	51543-98-7	1E+05	NA 888	Fungicide	Bis-Carbamate
phenylenebis(iminocarbonyl-				_	
1H-benzimidazole-1,2-			1		
diyl))biscarbamate					
Dimetilan	644-64-4	90101	NA 844	Insecticide	Other Carbamate
Dioxacarb	6988-21-2	4E+05	4067	Insecticide	N-Methyl Carbamate
EPTC	759-94-4	41401	264	Herbicide	Thiocarbamate
Esprocarb	85785-20-2	NA 203	NA 202	Herbicide	Thiocarbamate
Ethiofencarb	29973-13-5	1E+05	NA 50	Insecticide	N-Methyl Carbamate
<u>Ethiolate</u>	2941-55-1	1E+05	1793	Herbicide	Thiocarbamate
Fenethacarb	30087-47-9	3E+05	NA 141	Insecticide	N-Methyl Carbamate
Fenobucarb	3766-81-2	NA 176	NA 51	Insecticide	N-Methyl Carbamate
<u>Fenothiocarb</u>	62850-32-2	NA 188	NA 187	Insecticide	Thiocarbamate
. Fenoxycarb	79127-80-3	1E+05	2283	Insecticide,	Other Carbamate
				Insect Growth	
1				Regulator	
Fenoxycarb	72490-01-8	NA 228	NA 228	Insecticide,	Other Carbamate
				Insect Growth	
				Regulator	
Ferbam	14484-64-1	34801	288	Fungicide	Dithiocarbamate
Ferric nitroso dimethyl	83542-83-0	5E+05	NA 149	Microbiocide	Dithiocarbamate
dithiocarbamate			·		
Formetanate	22259-30-9	5E+05	NA 150	Insecticide	N-Methyl Carbamate
Formetanate hydrochloride	23422-53-9	97301	111	Insecticide	N-Methyl Carbamate
Furathiocarb	65907-30-4	NA 176	NA 52	Insecticide	Thiocarbamate
Isolan	119-38-0	5E+05	NA 155	Insecticide	Other Carbamate
Isopolinate	3134-70-1	NA 232	NA 232	Herbicide	Thiocarbamate
Isoprocarb	2631-40-5	5E+05	NA 53	Insecticide	N-Methyl Carbamate
Karbutilate	4849-32-5	97401	691	Herbicide	Other Carbamate
m-Cumenyl methylcarbamate	64-00-6	47801	NA 414	Insecticide	N-Methyl Carbamate
Mancopper	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Mancozeb	#########	14504	211	Fungicide	Dithiocarbamate,
Maneb	10407 20 0	14505			Inorganic-Zinc
	12427-38-2	14505	369	Fungicide	Dithiocarbamate
Maneb and nickel sulfate	8005-46-7	6E+05	NA 158	Fungicide	Dithiocarbamate,
hexahydrate (014505 +					Inorganic-Nickel
050505) Manganous	15220 26 2	34000	274 204		
dimethyldithiocarbamate	15339-36-3	34802	NA 304	Fungicide	Dithiocarbamate
Mecarbinizid	27386-64-7	6P105	NIA 157	27/4	0.1 0.1
Mercuric dimethyl	15415-64-2	6E+05 34808	NA 157	N/A	Other Carbamate
dithiocarbamate	13413-04-2	34608	709	Microbiocide	Inorganic-Mercury,
didnocal ballate					Heavy metal,
Metam sodium, dihydrate	137-42-8	39003	NA 163	Enminent	Dithiocarbamate
i i i i i i i i i i i i i i i i i i i	137-42-6	39003	1VA 105	Fumigant, Fungicide,	Dithiocarbamate
1				Microbiocide,	
				Algaecide,	
				Nematicide	
Metam-sodium	6734-80-1	39003	616	Fumigant,	Dithiocarbamate
			010	Herbicide,	Diunocarvamate
!				Fungicide,	
		]		Microbiocide,	
		į		Algaecide,	
				Nematicide	
Methasulfocarb	66952-49-6	NA 202	NA 201	Fungicide,	Thiocarbamate
					- AMOUNTONINATO

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	TT TD	T 61
Chemical Ivanie	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
				Plant Growth	
				Regulator	•
Methiobencarb	18357-78-3	NA 232	NA 232	Herbicide	Thiocarbamate
Methiocarb	2032-65-7	1E+05	375	Insecticide,	N-Methyl Carbamate
No di di di di	ļ			Molluscicide	
Methiocarb sulfone	2179-25-1	2E+05	4077	Breakdown	N-Methyl Carbamate
Methiocarb sulfoxide	222222222			product	·.
Methocard suitoxide	<i>##########</i>	2E+05	4078	Breakdown	N-Methyl Carbamate
Methomyl	16752-77-5	00201	202	product	
, wichomy	10/32-//-3	90301	383	Insecticide,	N-Methyl Carbamate
				Breakdown product	
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
		11001	475	rungicide	Inorganic-Zinc
Metolcarb	1129-41-5	NA-202	NA 201	Insecticide	N-Methyl Carbamate
Mexacarbate	315-18-4	44201	623	Insecticide	N-Methyl Carbamate
Mobam	1079-33-0	90401	NA 848	Insecticide	N-Methyl Carbamate
Molinate	2212-67-1	41402	449	Herbicide	Thiocarbamate
Molinate sulfoxide	NA 1052	NA 156	4080	Breakdown	Thiocarbamate
				product	
Morpholinomethyl	31848-11-0	6E+05	NA 158	Microbiocide	Dithiocarbamate
dimethyldithiocarbamate					
Nabam	142-59-6	14503	417	Fungicide,	Dithiocarbamate
Nitrilacarb	20/72 10 2			Herbicide	
o-(2-Propynyloxy)phenyl	29672-19-3	2E+05	NA 129	Insecticide	Other Carbamate
methylcarbamate	3279-46-7	3E+05	NA 138	Insecticide	N-Methyl Carbamate
Orbencarb	34622-58-7	NA 189	NA 188	TT1-1-1-1	(77) ·
Oxamyl	23135-22-0	1E+05	1910	Herbicide	Thiocarbamate
1	23133-22-0	115.05	1910	Insecticide, Nematicide	N-Methyl Carbamate
Pebulate	1114-71-2	41403	590	Herbicide	Thiocarbamate
Phenisopham	57375-63-0	NA 209	NA 208	Herbicide	Bis-Carbamate
Phenmedipham	13684-63-4	98701	675	Herbicide	Bis-Carbamate  Bis-Carbamate
Phenmedipham-ethyl	13684-44-1	4E+05	NA 149	Herbicide	Bis-Carbamate
Phenylmercuric	32407-99-1	66008	NA 555	Microbiocide,	Organomercury,
dimethyldithiocarbamate				Fungicide	Dithiocarbamate,
					Heavy metal
Pirimicarb	23103-98-2	1E+05	1875	Insecticide	N-Methyl Carbamate
Pirimicarb sulfone	NA 1050	NA 155	4090	Breakdown	N-Methyl Carbamate
Pirimicarb sulfoxide	)TA 1040	374 155		product	
Filmicaro sulloxide	NA 1049	NA 155	4091	Breakdown	N-Methyl Carbamate
Potassium ammonium	22221-14-3	14507	NA 141	product	
ethylenebis(dithiocarbamate)	22221-14-3	14507	NA 141	Microbiocide	Dithiocarbamate
Potassium asulam	14089-43-1	1E+05	NA 893	Herbicide	O41 C1
Potassium dimethyl dithio	128-03-0	34803	1934	Microbiocide	Other Carbamate Dithiocarbamate
carbamate		7.005	1754	Micropiocide	Diuliocardamate
Potassium N-hydroxymethyl-	51026-28-9	1E+05	1824	N/A	Dithiocarbamate
N-methyldithio carbamate				4444	- innocarvaniale
Potassium N-methyldithio	137-41-7	39002	970	Fumigant,	Dithiocarbamate
carbamate				Fungicide,	
			}	Microbiocide,	
	1	ļ	İ	Algaecide,	İ
Drow- and	24264.04.0	-374.655		Nematicide	
Promacyl Promecarb	34264-24-9	NA 209	NA 209	Insecticide	N-Methyl Carbamate
Tromecaro	2631-37-0	3E+05	4092	Insecticide	N-Methyl Carbamate

Chemical Name	C4027 1	77.0 55.50			
<u>Chemical Name</u>	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
December	04550 50 5	Code	Code		
Propamocarb	24579-73-5	1E+05	2147	Fungicide	Other Carbamate
· Propamocarb hydrochloride	25606-41-1	1E+05	4022	Fungicide	Other Carbamate
Propham	122-42-9	47601	339	Herbicide,	Other Carbamate
				Plant Growth	
				Regulator	1
Propineb	12071-83-9	5E+05	NA 155	Fungicide,	Dithiocarbamate,
				Microbiocide	Inorganic-Zinc
Propoxur	114-26-1	47802	62	Insecticide	N-Methyl Carbamate
Propoxur, other related	NA 1073	NA 161	90062	Insecticide	N-Methyl Carbamate
Prosulfocarb	52888-80-9	NA 185	NA 184	Herbicide	Thiocarbamate
Prothiocarb	19622-08-3	NA 183	NA 182	Fungicide	Thiocarbamate
Prothiocarb hydrochloride	19622-19-6	NA 200	NA 199	Fungicide	Thiocarbamate
Pyributicarb	88678-67-5	NA 229	NA 229	Herbicide	Thiocarbamate
Pyrolan	87-47-8	6E+05	NA 157	Insecticide	
S-tert-Butyl	2212-63-7	2E+05	NA 128	Herbicide	Other Carbamate
dipropylthiocarbamate	2212 05 /	25.03	14A 120	Helpicide	Thiocarbamate
Sodium dimethyl dithio	128-04-1	34804	548	Empirida	D'al.
carbamate	120-04-1	34004	246	Fungicide	Dithiocarbamate
Sulfallate	95-06-7	39001	115	77.1.11	
Swep	1918-18-9		115	Herbicide	Dithiocarbamate
Terbutol	########	84601	4098	N/A	Other Carbamate
		38801	51	Herbicide	N-Methyl Carbamate
Tert-butyl dimethyl trithio	3304-97-0	34807	1383	Rodent	Dithiocarbamate
peroxycarbamate	777			Repellent	·
Tert-	NA 1130	NA 166	91383	N/A	Dithiocarbarnate
butyldimethyltrithioperoxycarb					,
amate, other related					
Thiobencarb	28249-77-6	1E+05	1933	Herbicide	Thiocarbamate
Thiobencarb sulfoxide	NA 1042	NA 139	2937	Breakdown	Thiocarbamate
				product	
Thiocarboxime	25171-63-5	6E+05	NA 156	N/A	N-Methyl Carbamate
Thiodicarb	59669-26-0	1E+05	2202	Molluscicide,	Thiocarbamate
				Insecticide	
Thiofanox	39196-18-4	1E+05	2938	Insecticide	N-Methyl Carbamate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and	75497-92-6	56011	NA 463	Fungicide,	Dithiocarbamate
2-methyl-1-				Plant Growth	
naphthaleneacetamide and 2-				Regulator	
methyl-1-naphthaleneacetic					
acid					
Tiocarbazil	36756-79-3	1E+05	NA 911	Herbicide	Thiocarbamate
Triallate	2303-17-5	78802	49	Herbicide	Thiocarbamate
Tricopper dichloride	7076-63-3	5E+05	NA 152	Microbiocide	Dithiocarbamate,
dimethyldithiocarbamate			-11.1 102	7.110100100100	Inorganic-Copper
Trimethacarb	12407-86-2	1E+05	2962	Insecticide,	N-Methyl Carbamate
		.2.05	2,02	Molluscicide,	14-141ettiyi Carbamate
			İ	Dog and Cat	
			·	Repellent	
Trimethacarb, (2,3,5)-	2655-15-4	1E+05	NA 882	Insecticide,	NI Mother! Co. 1
component of	2000-15-7	12.03	1177 007	Molluscicide	N-Methyl Carbamate
Trimethacarb, (3,4,5)-	2686-99-9	1E+05	NA 881		NI N (-4 1 C 1
component of	2000-33-3	115,000	TAW 001	Insecticide,	N-Methyl Carbamate
Vernolate	1929-77-7	41404	1007	Molluscicide	
XMC		41404	1987	Herbicide	Thiocarbamate
	2655-14-3	NA 176	NA 54	Insecticide	N-Methyl Carbamate
Xylylcarb Zinch	#########	NA 176	NA 55	Insecticide	N-Methyl Carbamate
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate,
L					Inorganic-Zinc

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	3,13,144,1001	Code	Code	<u> </u>	Chemical Class
Zineb-ethylene thiuram	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate,
disulfide adduct					Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide,	Dithiocarbamate,
				Microbiocide,	Inorganic-Zinc
				Dog and Cat	
				Repellent	
Ziram, cyclohexylamine	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
complex		]		Repellent,	Inorganic-Zinc
Anotominuid	125410 00 7	00050	274 064	Fungicide	
Acetamiprid Imidacloprid	135410-20-7	99050 #####	NA 864	Insecticide	Chloro-nicotinyl
Imidacloprid	105827-78-9 138261-41-3	######################################	3849	Insecticide	Chloro-nicotinyl
Thiacloprid	111988-49-9	NA 201	NA 111 NA 201	Insecticide	Chloro-nicotinyl
Halofenozide	112226-61-6	######	5019	Insecticide Insecticide	Chloro-nicotinyl
Methoxyfenozide	161050-58-4	#####	NA 983	Insecticide	Diacylhydrazine Diacylhydrazine
Tebufenozide	112410-23-8	#####	3957	Insecticide	Diacylhydrazine  Diacylhydrazine
Bacillus thuringiensis Cry1F	NA 1486	6481	NA 220	Insecticide	GE Crop
protein and the genetic material	14111400	0401	11A 220	msecucide	GE Crop
necessary for its production					
(plasmid insert PHI8999) in					,
corn pla					
Bacillus thuringiensis Cry1Ab	NA 1487	6430	NA 220	Insecticide	GE Crop
Delta-Endotoxin and the					
Genetic Material Necessary for					
Its Production in Corn [MON				·	
810]					
Bacillus thuringiensis delta endotoxin produced in corn	68038-71-1	NA 160	3954	Insecticide	GE Crop
Bacillus thuringiensis subsp.	NA 1226	6463	NTA 100	T	
Kurstaki CryIA (c) delta-	NA 1220	0403	NA 170	Insecticide	GE Crop
endotoxin and the genetic					
material necessary for its					
production in corn					
Bacillus thuringiensis subsp.	68038-71-1	6444	5048	Insecticide	GE Crop
Kurstaki, delta-endotoxin as					
produced in com by an HD-1					-
gene, and its controlling					
sequences and					
Bacillus thuringiensis subsp.	NA 1233	6466	NA 171	Insecticide	GE Crop
Tolworthi Cry9C protein and					
the genetic material necessary for its production (pRVA9909)					
in corn p					
Bacillus thuringiensis	NA 1237	6432	NA 171	Insecticide	GR C
subspecies Tenebrionis delta	1427 1721	U <del>4</del> 32	INA I/I	msecucide	GE Crop
endotoxin as produced in				1	ŀ
potato by Cry IIIA gene and its					
controlling sequenc					
Bacillus thuringiensis var.	NA 1480	6402	3554	Insecticide	GE Crop
Kurstaki protein in cottonseed					P
Bacillus thuringiensis, subsp.	68038-71-1	6461	3986	Insecticide	GE Crop
Kurstaki, strain HD-1,delta-					•
endotoxin as produced in corn					
by a Cry 1A(b) gene and its					
controlling	NTA 1070	6105			
HD-1 Protein as encoded by	NA 1273	6408	NA 173	Insecticide	GE Crop
Bacillus thuringiensis subsp.					

Chemical Name	01027	T=====================================		T	
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
kurstaki gene and produced in		Code	Code		
Plant mosticide Deciller	371 4007				
Plant pesticide Bacillus	NA 1285	6458	NA 174	Insecticide	GE Crop
thuringiensis Cry1A(b) delta-		Ì			1
endotoxin and the genetic			j		
material necessary for its		1			
production (plasmid V					ĺ
Potato leafroll virus (PLRV)	NA 1295	6469	NA 175	Fungicide	GE Crop
replicase protein as produced in					GE Crop
potato plants		<b>!</b>			
1,1,1-trichloroethane	71-55-6	81201	138	Solvent	Halogonatad associa
1,1,2-trichloro-1;2,2-trifluoro-	76-13-1	NA 972	2960	Solvent	Halogenated organic
ethane		1.27.2	2,00	Solvent	Halogenated organic
1,1,2-trichloroethane	79-00-5	81203	1425	Colonia	77.1
1,2,3,4-Tetrachlorobenzene	634-66-2	61101	NA 494	Solvent	Halogenated organic
1,2,4-trichlorobenzene	120-82-1		<del></del>	N/A	Halogenated organic
1,2-dichloropropane	78-87-5	81101	600	N/A	Halogenated organic
1,2 demoropropane	/8-8/-3	29002	2501	Fumigant,	Halogenated organic
1,2-Dichloropropane mixt. with	200000000			Nematicide	
1,3-dichloropropene and	<del>}                                    </del>	29004	NA 215	Fumigant,	Halogenated organic
				Nematicide	
methyl isothiocyanate					
1,2-dichloropropane, 1,3-	NA 1022	29002	185	Fumigant,	Halogenated organic
dichloropropene and related C3				Nematicide	l and organic
compounds					1
1,3-Dichloro-1-propene, mixt.	8003-19-8	29003	NA 214	Fumigant,	Halogenated organic
with 1,2-dichloropropane				Nematicide	Theogenated Organic
1,3-dichloropropene	542-75-6	29001	573	Fumigant,	Halogenated organic
				Nematicide	Tratogenated organic
1-chloro-1,1-difluoro ethane	75-68-3	NA 423	3103	Solvent	Tiple servet 1
1-chlorobutane	109-69-3	NA 425	1151		Halogenated organic
3-chloro-2-methyl propene	563-47-3	NA 422	2463	Solvent	Halogenated organic
Bis(2,2-dichloroethyl)ether	1191-17-9	29502		N/A	Halogenated organic
Bromoethane	74-96-4		NA 217	N/A	Halogenated organic
Carbon tetrachloride	56-23-5	NA 131	2427	N/A	Halogenated organic
omoon toddomoride	30-23-3	16501	109	Solvent,	Halogenated organic
Carbon tetrachloride with EDB	53000 05 0			Fumigant	
& EDC	53908-27-3	16503	NA 146	Fumigant,	Halogenated organic
Carbon tetrachloride with EDC				Nematicide	
Caroon tetrachioride with EDC	#########	16502	NA 145	Fumigant,	Halogenated organic
				Nematicide	
Carbon tetrafluoride	75-73-0	NA 113	3099	Propellant	Halogenated organic
Chloro difluoro methane	75-45-6	15	3104	Propellant,	Halogenated organic
	ļ			Fumigant,	Transgenated organic
	:	İ	į.	Insecticide	! !
Chlorodibromomethane	124-48-1	NA 426	2462	N/A	Halogoratad
Chloroform	67-66-3	20701	133	Solvent,	Halogenated organic
		-5,01	133		Halogenated organic
DBCP	96-12-8	11301	183	Fumigant	
	JU-12-0	11301	163	Fumigant,	Halogenated organic
DBCP, other related	NA 1079	NA 161	00100	Nematicide	
	IVA 1079	101 AM	90183	Fumigant,	Halogenated organic
Dichloroethylene, 1,1-	75.25.4			Nematicide	
Dichlorofluoromethane	75-35-4	6E+05	NA 13	Impurity	Halogenated organic
	75-43-4	NA 348	1815	Propellant	Halogenated organic
Difluoro diphenyl	475-26-3	32001	NA 293	N/A	Halogenated organic
trichloroethane					5 ====================================
Ethane, 1,1,1,2-tetrafluoro-	811-97-2	1E+05	NA 873	N/A	Halogenated organic
Ethyl chloride	75-00-3	NA 114	3198	N/A	Halogenated organic
					organic

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC Type	Chemical Class
Ethylene chlorobromide	107-04-0	42001	2557	N/A	Halogenated organic
Ethylene dibromide	106-93-4	42002	271	Fumigant,	Halogenated organic
		ĺ		Nematicide	Tamogonated Organic
Ethylene dichloride	107-06-2	42003	274	Fumigant,	Halogenated organic
				Insecticide	
Freon 11	75-69-4	13	1460	Propellant,	Halogenated organic
				Fumigant,	
	ļ			Insecticide	
Freon 12	75-71-8	14	1459	Propellant,	Halogenated organic
				Fumigant,	
Tralamont	00.10.7			Insecticide	
Halazone -	80-13-7	77201	316	N/A	Halogenated organic
Hexachloroacetone	116-16-5	43701	320	Herbicide	Halogenated organic
Hexachloroacetone, other related	NA 1090	NA 162	90320	Herbicide	Halogenated organic
Hexachloroethane	67-72-1	45201	374.00	7711	
Hydrofluorocarbon 152A	NA 617	45201	NA 22	N/A	Halogenated organic
Methyl bromide	74-83-9	NA 112 53201	2599	Propellant	Halogenated organic
Wiethyl blomide	/4-03-9	33201	385	Fumigant,	Halogenated organic
	·		l	Insecticide,	
				Herbicide, Nematicide	
Methyl chloride	74-87-3	53202	2677	N/A	Walassata
Methyl iodide	74-88-4	NA 177	NA 165	Fumigant,	Halogenated organic Halogenated organic
		242277	1121 105	Nematicide	natogenated organic
Methylene chloride	75-09-2	42004	388	Solvent, Dog	Halogenated organic
				and Cat	Tratogenated organic
			1	Repellent	
Ortho-dichlorobenzene	95-50-1	59401	578	Insecticide	Halogenated organic
Ortho-dichlorobenzene, other related	NA 1116	NA 165	90683	Insecticide	Halogenated organic
Para-dichlorobenzene	106-46-7	61501	455	Insecticide,	Halogenated organic
		1		Insect	Traiogenated organic
				Repellent,	
				Rodenticide,	
				Fungicide	
Pentachloroethane	76-01-7	6E+05	NA 159	N/A	Halogenated organic
Propargyl bromide	106-96-7	68701	NA 608	Fumigant,	Halogenated organic
				Nematicide	
Tetrachloroethane	79-34-5	78601	3559	Solvent,	Halogenated organic
Total I and I	105.10			Fumigant	
Tetrachloroethylene	127-18-4	78501	1174	Solvent	Halogenated organic
Tetraiodo ethylene	513-92-8	46908	582	N/A	Halogenated organic
trans-1,3-Dichloropropene Trichloro ethylene	10061-02-6	NA 227	NA 227	Fumigant	Halogenated organic
Trichlorobenzene	79-01-6	81202	595	N/A	Halogenated organic
Trichlorofluoromethane	87-61-6	NA 971	1619	N/A	Halogenated organic
11101101011110101111111111111111111111	75-69-4	13	3482	Propellant,	Halogenated organic
			i	Fumigant,	
Trichloromethane	67-66-3	20701	1760	Insecticide	<del></del>
2 12 onto to mediane	07-00-3	20/01	1758	Solvent,	Halogenated organic
2,3(and 3,4)-Dichlorobenzyl	62046-37-1	#####	NA 136	Fumigant	NT 36 -1 -1 G -1
methylcarbamates	02070-37-1	<del>1111111111</del>	1AW 120	Insecticide	N-Methyl Carbamate
2,4-Dimethyl-1,3-dithiolane-2-	26419-73-8	#####	NA 143	Insecticide	NI Mothed Co. 1
carboxaldehyde O-	20717-13-0	#####	14W 149	insecucide	N-Methyl Carbamate
(methylcarbamoyl)oxime					
2-(4,5-Dimethyl-1,3-dioxolan-	1905930	#####	NA 145	Insecticide	N-Methyl Carbamate
				AISCOUCIUC	11-Michiyi Carbamate

Chemical Name	CAS Number	TIC EDA DO	I C A CT	T	
<u>Sheimear Traine</u>	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
2-yl)phenyl-N-		- COGC	Code	<del> </del>	
methylcarbamate			ĺ		
2-chloro-4,5-xylyl N-hydroxy-	14357-82-5	#####	NA 117	Insecticide	N-Methyl Carbamate
N-methylcarbamate	<u> </u>				11-11/1emyl Carbamate
2-cyclopentylphenyl	3282-00-6	#####	NA 132	Insecticide	N-Methyl Carbamate
methylcarbamate					- v 1/20th y 1 Out battlate
2-Hydroxyphenyl	10309-97-4	#####	NA 118	Insecticide	N-Methyl Carbamate
methylcarbamate 3,4-Dichlorobenzyl	0200 01 6				,
methylcarbamate	2328-31-6	#####	NA 136	Insecticide	N-Methyl Carbamate
3,5-Diisopropylphenyl	330-64-3	21.011111	271 445	<u> </u>	
methylcarbamate	330-04-3	<del>         </del>	NA 142	Insecticide	N-Methyl Carbamate
3-hydroxycarbofuran	16655-82-6	#####	4074	Desciole	3776
		""""	40/4	Breakdown product	N-Methyl Carbamate
3-ketocarbofuran	16709-30-1	NA 176	NA 164	Breakdown	N Mathed Co. 1
			1121 107	product	N-Methyl Carbamate
4-	17702-57-7	· #####	NA 142	Insecticide	N-Methyl Carbamate
(((Dimethylamino)methylene)a	]	: .			11-Monyl Carbaniale
mino)-m-tolyl					
methylcarbamate 4-(Methylamino)-3,5-xylyl	10000 50 1				
methylcarbamate	10389-50-1	<del>         </del>	NA 118	Insecticide	N-Methyl Carbamate
4-(Methylformamido)-3,5-	10233-94-0		2-1		
xylyl methylcarbamate	10233-94-0	: <del>              </del>	NA 118	Insecticide	N-Methyl Carbamate
4-(Methylthio)-m-tolyl	3566-00-5	#####	NA 157		
methylcarbamate	3300-00-3	<del>""""""</del>	NA 157	Insecticide	N-Methyl Carbamate
4-Amino-3,5-xylyl	831-76-5	#####	NA 117	Insecticide	)
methylcarbamate			142117	msecucide	N-Methyl Carbamate
5,6,7,8-Tetrahydro-1-naphthyl	.1136-84-1	#####	NA 148	Insecticide	N-Methyl Carbamate
methylcarbamate		,		200000000	11-Methyl Carbamate
6-(and 2)-chloro-3,4-xylyl	8063-85-2	38701	NA 322	Insecticide	N-Methyl Carbamate
methylcarbamate					1. Instally Carbannate
Aldicarb	116-06-3	98301	575	Insecticide,	N-Methyl Carbamate
Aldicarb sulfoxide	1646.07.0			Nematicide	
Addicaro sunoxide	1646-87-3	<del>111111111</del>	2361	Breakdown	N-Methyl Carbamate
. Aldoxycarb	1646-88-4	#####	22.65	product	
	1040-88-4	********	2265	Breakdown	N-Methyl Carbamate
Allyxycarb	6392-46-7	#####	NA 133	product	27264
Aminocarb	2032-59-9	44401	2435	Insecticide Insecticide	N-Methyl Carbamate
Bendiocarb	22781-23-3	#####	1924	Insecticide	N-Methyl Carbamate
Bufencarb	2282-34-0	59302	91	Insecticide	N-Methyl Carbamate N-Methyl Carbamate
Bufencarb	8065-36-9	59303	NA 485	Insecticide	N-Methyl Carbamate
Bufencarb, component of (with	672-04-8	59301	NA 484	Insecticide	N-Methyl Carbamate
059302)					1 Carbannate
Butacarb	2655-19-8	#####	NA 135	Insecticide	N-Methyl Carbamate
Butocarboxim	34681-10-2	NA 175	NA 49	Insecticide	N-Methyl Carbamate
Butoxycarboxim Carbanolate	34681-23-7	#####	2201	Insecticide	N-Methyl Carbamate
Carbaryl	671-04-5		NA 124	Insecticide	N-Methyl Carbamate
Carbaryi	63-25-2	56801	105	Insecticide,	N-Methyl Carbamate
I		1	ł	Plant Growth	
	1			Regulator,	
Carbofuran	1563-66-2	90601	106	Nematicide Insecticide,	N.M. I.C.
		20001	100	Nematicide	N-Methyl Carbamate
Carbosulfan	55285-14-8	90602	2182	Insecticide	N-Methyl Co-k
				200000000	N-Methyl Carbamate

Code   Code	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Cloethocarb					OSC Type	Chemical Class
Dichlormate	Cloethocarb	51487-69-5	#####		Insecticide,	N-Methyl Carhamate
Dioxacarb   6988-21-2   #####   4067   Insecticide   N-Methyl Carbamate   Ethiofencarb   29973-13-5   #####   NA 50   N-Methyl Carbamate   Fenethacarb   30087-47-9   #####   NA 141   Insecticide   N-Methyl Carbamate   Fenethacarb   3766-81-2   NA 176   NA 51   Insecticide   N-Methyl Carbamate   2125-93-9   #####   NA 150   Insecticide   N-Methyl Carbamate   2225-93-9   97301   111   Insecticide   N-Methyl Carbamate   Soprocarb   2631-40-5   #####   NA 150   Insecticide   N-Methyl Carbamate   Methiocarb   2032-65-7   #####   4077   Breakdown   N-Methyl Carbamate   Methiocarb sulfone   2179-25-1   #####   4077   Breakdown   Product   N-Methyl Carbamate						, , , , , , , , , , , , , , , , , , , ,
Dioxacarb   6988-21-2   #####   4067   Insecticide   N-Methyl Carbamate   Ethiofenearb   29973-13-5   #####   NA 141   Insecticide   N-Methyl Carbamate   Fenethacarb   3766-81-2   NA 176   NA 51   Insecticide   N-Methyl Carbamate   22259-30-9   #####   NA 141   Insecticide   N-Methyl Carbamate   22259-30-9   #####   NA 150   Insecticide   N-Methyl Carbamate   N-					Herbicide	N-Methyl Carbamate
Ethiotencarb   29973-13-5   #####   NA 50   Insecticide   N-Methyl Carbamate   Fenobucarb   3766-81-2   NA 176   NA 51   Insecticide   N-Methyl Carbamate   Fenobucarb   22259-30-9   #####   NA 150   Insecticide   N-Methyl Carbamate   Formetanate   22259-30-9   #####   NA 150   Insecticide   N-Methyl Carbamate   Soprocarb   2231-40-5   #####   NA 51   Insecticide   N-Methyl Carbamate					Insecticide	
Fenethacarb   30087-347-9   #####   NA 141   Insecticide   N-Methyl Carbamate   Fenobucarb   3766-81-2   NA 176   NA 51   Insecticide   N-Methyl Carbamate   Formetanate   22259-30-9   #####   NA 150   Insecticide   N-Methyl Carbamate   Carbamat					Insecticide	
Formetanate   22259-30-9   #####   NA 150   Insecticide   N-Methyl Carbamate   Insecticide   N-Methyl Carbamate						
Formetanate hydrochloride						N-Methyl Carbamate
Isoprocarb   2631-40-5   #####   NA 53   Insecticide   N-Methyl Carbamate   N-Methyl Carbam						
Methiocarb   2032-65-7   #####   375   Insecticide   N-Methyl Carbamate						
Methiocarb         2032-65-7         #####         375         Insecticide, Molluscicide Molluscicide         N-Methyl Carbamate Molluscicide           Methiocarb sulfoxide         2179-25-1         #####         4077         Breakdown product         N-Methyl Carbamate Product           Methiocarb sulfoxide         267266         #####         4078         Breakdown product         N-Methyl Carbamate Product           Methomyl         16752-77-5         90301         383         Insecticide Preakdown product         N-Methyl Carbamate Preakdown product           Mexacarbate         315-18-4         44201         623         Insecticide N-Methyl Carbamate Preakdown product           Mobam         1079-33-0         90401         NA 848         Insecticide Insecticide N-Methyl Carbamate N-Methyl Carbamate Promate Primicarb mate         N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate Primicarb sulfone         NA 1050         NA 155         Insecticide N-Methyl Carbamate N-Methyl Carbamate Promacyl         NA 1050         NA 155         4090         Breakdown product N-Methyl Carbamate N-Methyl Carbamate Promacyl         NA 204-24-9         NA 209         Insecticide N-Methyl Carbamate N-Methyl Carbamate Propoxur         N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate Propoxur         N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carbamate N-Methyl Carba						
Methiocarb sulfoxide						
Methiocarb sulfoxide         267266         #####         4077         Breakdown product         N-Methyl Carbamate product           Methiocarb sulfoxide         267266         #####         4078         Breakdown product         N-Methyl Carbamate           Methomyl         16752-77-5         90301         383         Insecticide, Breakdown product         N-Methyl Carbamate           Metolcarb         1129-41-5         NA 202         NA 201         Insecticide, Breakdown product         N-Methyl Carbamate           Mobam         1079-33-0         90401         NA 848         Insecticide         N-Methyl Carbamate           O-(2-Propynyloxy)phenyl methylcarbamate         3279-46-7         #####         NA 138         Insecticide, N-Methyl Carbamate           Oxamyl         23135-22-0         #####         1875         Insecticide, Nematicide         N-Methyl Carbamate           Pirimicarb         23103-98-2         #####         1875         Insecticide, Nematicide         N-Methyl Carbamate           Pirimicarb sulfoxide         NA 1050         NA 155         4090         Breakdown product         N-Methyl Carbamate           Promacyl         34264-24-9         NA 209	Meditocard	2032-65-7	######	375		N-Methyl Carbamate
Methiocarb sulfoxide	Methiocarb sulfone	2179-25-1	<del>         </del>	4077		N-Methyl Carhamata
Methiocarb sulfoxide         267266         #####         4078         Breakdown product Insecticide, Breakdown product         N-Methyl Carbamate product           Methomyl         16752-77-5         90301         383         Insecticide, Breakdown product         N-Methyl Carbamate           Metolcarb         11129-41-5         NA 202         NA 201         Insecticide         N-Methyl Carbamate           Mobam         1079-33-0         90401         NA 848         Insecticide         N-Methyl Carbamate           Oxamyl         23135-22-0         #####         NA 138         Insecticide, N-Methyl Carbamate           Pirimicarb         23103-98-2         #####         1875         Insecticide, Nematicide         N-Methyl Carbamate           Pirimicarb sulfone         NA 1050         NA 155         4090         Breakdown product         N-Methyl Carbamate           Pirimicarb sulfoxide         NA 1049         NA 155         4090         Breakdown product         N-Methyl Carbamate           Promacyl         34264-24-9         NA 209         Breakdown product         N-Methyl Carbamate           Propoxur         114-26-1         4780.2         Ensecticide         N-Methyl Carbamate           Propoxur, other related         NA 1073         NA 161         90062         Insecticide					ł	11-Methyl Carbaniale
Methomyl   16752-77-5   90301   383   Insecticide, Breakdown product   N-Methyl Carbamate   Mexacarbate   315-18-4   44201   623   Insecticide   N-Methyl Carbamate   Moham   1079-33-0   90401   NA 848   Insecticide   N-Methyl Carbamate   O-(2-Proprynyloxy)phenyl methylcarbamate   23135-92-0   #####   NA 138   Insecticide   N-Methyl Carbamate	Methiocarb sulfoxide	267266	#####	4078		N-Methyl Carbamate
Methomyl         16752-77-5         90301         383         Insecticide, Breakdown product Product         N-Methyl Carbamate           Metolcarb         1129-41-5         NA 202         NA 201         Insecticide         N-Methyl Carbamate           Mexacarbate         315-18-4         44201         623         Insecticide         N-Methyl Carbamate           O-(2-Propynyloxy)phenyl methylcarbamate         3279-46-7         #####         NA 138         Insecticide         N-Methyl Carbamate           Oxamyl         23135-22-0         #####         1910         Insecticide         N-Methyl Carbamate           Pirimicarb         23103-98-2         #####         1875         Insecticide         N-Methyl Carbamate           Pirimicarb sulfone         NA 1050         NA 155         4090         Breakdown product         N-Methyl Carbamate           Pirimicarb sulfoxide         NA 1049         NA 155         4091         Breakdown product         N-Methyl Carbamate           Promacyl         34264-24-9         NA 209         NA 209         Insecticide         N-Methyl Carbamate           Propoxur         114-26-1         47802         62         Insecticide         N-Methyl Carbamate           Propoxur, other related         NA 1073         NA 161         90062	,					· · · · · · · · · · · · · · · · · · ·
Metolcarb	Methomyl	16752-77-5	90301	383		N-Methyl Carbamate
Metolcarb         1129-41-5         NA 202         NA 201         Insecticide         N-Methyl Carbamate           Mexacarbate         315-18-4         44201         623         Insecticide         N-Methyl Carbamate           Mobam         1079-33-0         90401         NA 848         Insecticide         N-Methyl Carbamate           0-(2-Propynyloxy)phenyl methylcarbamate         3279-46-7         #####         NA 138         Insecticide         N-Methyl Carbamate           Oxamyl         23135-22-0         #####         1910         Insecticide, Nematicide         N-Methyl Carbamate           Pirimicarb         23103-98-2         #####         1875         Insecticide         N-Methyl Carbamate           Pirimicarb sulfone         NA 1050         NA 155         4090         Breakdown product         N-Methyl Carbamate           Pirimicarb sulfoxide         NA 1049         NA 155         4091         Breakdown product         N-Methyl Carbamate           Promacyl         34264-24-9         NA 209         NA 209         Insecticide         N-Methyl Carbamate           Propoxur         114-26-1         47802         62         Insecticide         N-Methyl Carbamate           Propoxur, other related         NA 1073         NA 161         90062         Insect					Breakdown	,
Mexacarbate   315-18-4   44201   623   Insecticide   N-Methyl Carbamate   1079-33-0   90401   NA 848   Insecticide   N-Methyl Carbamate   O-(2-Propynyloxy)phenyl methylcarbamate   0-(3-Propynyloxy)phenyl methylcarbamate   0					product	
Mobam						
O-(2-Propynyloxy)phenyl methylcarbamate						N-Methyl Carbamate
Description						N-Methyl Carbamate
Pirimicarb   23103-98-2   #####   1875   Insecticide   N-Methyl Carbamate   Pirimicarb sulfone   NA 1050   NA 155   4090   Breakdown   product   Pirimicarb sulfoxide   NA 1049   NA 155   4091   Breakdown   product   Promacyl   34264-24-9   NA 209   NA 209   Insecticide   N-Methyl Carbamate   Promecarb   2631-37-0   #####   4092   Insecticide   N-Methyl Carbamate   Propoxur   114-26-1   47802   62   Insecticide   N-Methyl Carbamate   Propoxur, other related   NA 1073   NA 161   90062   Insecticide   N-Methyl Carbamate   Terbutol   5419   38801   51   Herbicide   N-Methyl Carbamate   Thiocarboxime   25171-63-5   #####   NA 156   N/A   N-Methyl Carbamate   Trimethacarb   12407-86-2   #####   2938   Insecticide   N-Methyl Carbamate   N-		3279-46-7	<del>#####</del>	NA 138	Insecticide	N-Methyl Carbamate
Nematicide	Oxamy1	23135-22-0	#####	1910	Insecticide,	N-Methyl Carbamate
Pirimicarb sulfone					Nematicide	,
Pirimicarb sulfoxide						N-Methyl Carbamate
Pirimicarb sulfoxide		NA 1050	NA 155	4090		N-Methyl Carbamate
Promacyl         34264-24-9         NA 209         NA 209         Insecticide         N-Methyl Carbamate           Promecarb         2631-37-0         #####         4092         Insecticide         N-Methyl Carbamate           Propoxur         114-26-1         47802         62         Insecticide         N-Methyl Carbamate           Propoxur, other related         NA 1073         NA 161         90062         Insecticide         N-Methyl Carbamate           Terbutol         5419         38801         51         Herbicide         N-Methyl Carbamate           Thiocarboxime         25171-63-5         #####         NA 156         N/A         N-Methyl Carbamate           Trimethacarb         12407-86-2         #####         2938         Insecticide         N-Methyl Carbamate           Trimethacarb, (2,3,5)- component of         2655-15-4         #####         NA 882         Insecticide, Molluscicide         N-Methyl Carbamate           XMC         2655-14-3         NA 176         NA 54         Insecticide         N-Methyl Carbamate           XMC         2655-14-3         NA 176         NA 54         Insecticide         N-Methyl Carbamate           XMC         2655-14-3         NA 176         NA 54         Insecticide         N-Methyl Carbamate <td>Pirimicarb sulfoxide</td> <td>NA 1049</td> <td>NA 155</td> <td>4091</td> <td>Breakdown</td> <td>N-Methyl Carbamate</td>	Pirimicarb sulfoxide	NA 1049	NA 155	4091	Breakdown	N-Methyl Carbamate
Promecarb   2631-37-0   #####   4092   Insecticide   N-Methyl Carbamate	Promacyl	24264 24 0	NTA 200	) TA 000		
Propoxur 114-26-1 47802 62 Insecticide N-Methyl Carbamate Propoxur, other related NA 1073 NA 161 90062 Insecticide N-Methyl Carbamate Terbutol 5419 38801 51 Herbicide N-Methyl Carbamate Thiocarboxime 25171-63-5 #### NA 156 N/A N-Methyl Carbamate Thiofanox 39196-18-4 ##### 2938 Insecticide N-Methyl Carbamate Trimethacarb 12407-86-2 ##### 2962 Insecticide, Molluscicide, Dog and Cata Repellent N-Methyl Carbamate						
Propoxur, other related						
Terbutol 5419 38801 51 Herbicide N-Methyl Carbamate Thiocarboxime 25171-63-5 ##### NA 156 N/A N-Methyl Carbamate Thiofanox 39196-18-4 ##### 2938 Insecticide N-Methyl Carbamate Trimethacarb 12407-86-2 ##### 2962 Insecticide, Molluscicide, Dog and Cat Repellent N-Methyl Carbamate Molluscicide, Dog and Cat Repellent Insecticide Molluscicide Molluscicide Molluscicide Trimethacarb, (3,4,5)- component of Trimethacarb, (3,4,5)- component of XMC 2655-14-3 NA 176 NA 54 Insecticide N-Methyl Carbamate Molluscicide XMC 2655-14-3 NA 176 NA 55 Insecticide N-Methyl Carbamate Xylylcarb 190572 NA 176 NA 55 Insecticide N-Methyl Carbamate Aldrin 309-00-2 45101 9 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs)						
Thiocarboxime 25171-63-5 ##### NA 156 N/A N-Methyl Carbamate Thiofanox 39196-18-4 ##### 2938 Insecticide N-Methyl Carbamate Trimethacarb 12407-86-2 ##### 2962 Insecticide, Molluscicide, Dog and Cat Repellent Trimethacarb, (2,3,5)- component of Molluscicide Trimethacarb, (3,4,5)- component of Molluscicide Trimethacarb, (3,4,5)- component of Molluscicide Trimethacarb, (3,4,5)- component of NA 176 NA 54 Insecticide N-Methyl Carbamate XMC 2655-14-3 NA 176 NA 54 Insecticide N-Methyl Carbamate Xylylcarb 190572 NA 176 NA 55 Insecticide N-Methyl Carbamate Aldrin 309-00-2 45101 9 Insecticide N-Methyl Carbamate Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs)						
Thiofanox 39196-18-4 ##### 2938 Insecticide N-Methyl Carbamate 12407-86-2 ##### 2962 Insecticide, Molluscide, Dog and Cat Repellent Notation Notati						N-Methyl Carbamate
Trimethacarb  12407-86-2  #####  2962  Insecticide, Molluscicide, Dog and Cat Repellent  Trimethacarb, (2,3,5)- component of  Trimethacarb, (3,4,5)- component of  XMC  XMC  2655-14-3  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  2655-14-3  XMC  XMC  XMC  XMC  XMC  XMC  XMC  XM						N-Methyl Carbamate
Trimethacarb, (2,3,5)- component of  Trimethacarb, (3,4,5)- component of  Trimethacarb, (3,4,5)- component of  XMC  XMC  XMC  XMC  XYlylcarb  XYlylcarb  Aldrin, other related  Aldrin, other related  Arochlor (composition unspecified, PCTs)  Arochlor (composition unspecified, PCTs)  Molluscicide, Molluscicide  N-Methyl Carbamate  NA 881  Insecticide, Molluscicide  N-Methyl Carbamate  NA 176  NA 54  Insecticide  N-Methyl Carbamate  N-Methyl Car						
Trimethacarb, (2,3,5)- component of  Trimethacarb, (3,4,5)- component of  Trimethacarb, (3,4,5)- component of  XMC  XMC  XMC  XMC  XMC  XMC  XMC  XM				2702		N-Ivielityi Carbamate
Trimethacarb, (2,3,5)- component of  Trimethacarb, (3,4,5)- component of  Trimethacarb, (3,4,5)- component of  XMC  Z655-14-3  XA176  X91ylcarb  Aldrin  Aldrin, other related  Aldrin, other related  Arochlor (composition unspecified, PCBs and/or PCTs)  Arochlor (PCTs)  Repellent  WH###  NA 882  Insecticide, Molluscicide  N-Methyl Carbamate  NA 176  NA 54  Insecticide  N-Methyl Carbamate  N-Methyl Carbam	]					
Trimethacarb, (2,3,5)- component of  Trimethacarb, (3,4,5)- component of  Trimethacarb, (3,4,5)- component of  XMC  2655-14-3  NA 176  NA 54  Insecticide, Molluscicide  XMC 2655-14-3  NA 176  NA 55  Insecticide N-Methyl Carbamate  Xylylcarb  Aldrin  309-00-2  Aldrin, other related Aldrin, other related Alpha-BHC  Arochlor (composition unspecified, PCBs and/or PCTs)  A 1605-15-4  #####  NA 882  Insecticide, Molluscicide N-Methyl Carbamate NA 106  NA 55  Insecticide N-Methyl Carbamate						
Trimethacarb, (3,4,5)- component of  XMC  2655-14-3  NA 176  NA 54  Insecticide, Molluscicide  Xylylcarb  190572  NA 176  NA 55  Insecticide N-Methyl Carbamate  N-Met	1	2655-15-4	#####	NA 882	Insecticide,	N-Methyl Carbamate
component of  XMC  2655-14-3  NA 176  NA 54  Insecticide  N-Methyl Carbamate  Xylylcarb  190572  NA 176  NA 55  Insecticide  N-Methyl Carbamate  N		2686 00 0	111111111	NIA OCT		
XMC 2655-14-3 NA 176 NA 54 Insecticide N-Methyl Carbamate Xylylcarb 190572 NA 176 NA 55 Insecticide N-Methyl Carbamate Aldrin 309-00-2 45101 9 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine alpha-BHC 319-84-6 NA 200 767 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs) NA 161 N/A Organochlorine		2080-99-9	********	NA 881		N-Methyl Carbamate
Xylylcarb 190572 NA 176 NA 55 Insecticide N-Methyl Carbamate Aldrin 309-00-2 45101 9 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine alpha-BHC 319-84-6 NA 200 767 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs) NA 161 N/A Organochlorine		2655-14-3	NA 176	NA 54		N-Methyl Carhamate
Aldrin 309-00-2 45101 9 Insecticide Organochlorine Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine alpha-BHC 319-84-6 NA 200 767 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs) NA 161 N/A Organochlorine		190572				
Aldrin, other related NA 1069 NA 160 90009 Insecticide Organochlorine alpha-BHC 319-84-6 NA 200 767 Insecticide Organochlorine Arochlor (composition unspecified, PCBs and/or PCTs) NA 161 N/A Organochlorine		309-00-2				
alpha-BHC 319-84-6 NA 200 767 Insecticide Organochlorine  Arochlor (composition unspecified, PCBs and/or PCTs) 17803 NA 161 N/A Organochlorine			NA 160	90009		
Arochlor (composition unspecified, PCBs and/or PCTs)  12767-79-2 17803 NA 161 N/A Organochlorine				767		
A1	unspecified, PCBs and/or	12767-79-2	17803			
Aroclor 1336-36-3 17801 5003 N/A Organochlorine						
	Aroclor	1336-36-3	17801	5003	N/A	Organochlorine

Bandane	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Charrie 1 Cl
Bandane		<u> </u>			Ose Type	Chemical Class
BHC (other than gamma isomore)	Bandane	8029-29-6			Insecticide	Organochloring
BHC, beta isomer	BHC (other than gamma	<del></del>				
Chlordane						Organocinorine
Chlordane	BHC, beta isomer	319-85-7	NA 175	NA 46	Insecticide	Organochlorine
Chlordane, other related   NA 1075   Chlordane, technical   12789-93-6   58202   NA 477   Insecticide   Organochlorine   Chlordecone   143-50-0   27701   347   Insecticide   Organochlorine   Chlordecone   143-50-0   27701   347   Insecticide   Organochlorine   DDD   72-54-8   29101   3002   Insecticide   Organochlorine   DDD   6088-31-3   NA 428   NA 228   DDD   DDD   Corporation   DDD   Corporation   DDD   Corporation   DDD   Corporation   DDD   Corporation   DDD   Corporation   DDD   Corporation   DDD   DDD   Corporation   DDD   DDD   Corporation   DDD   DDD   Corporation   DDD		57-74-9	58201	130		
Chlordane, technical   12789-03-6   58202   NA 477   Insecticide   Organochlorine   Chlordecone   143-50-0   27701   347   Insecticide   Organochlorine   Chlorendic Acid   115-28-6   NA 228   NA 228   NI/A   Organochlorine		NA 1075	NA 161	90130		
Chloredecone		12789-03-6	58202	NA 477		
Chlorendic Acid   115-28-6   NA 228   NIA   Organochlorine		143-50-0	27701	347		
DDD			NA 228	NA 228	N/A	Organochlorine
DDD				3002	Insecticide	
DDD, other related	DDD	6088-31-3	NA 415	184	Breakdown	
DDE					product	
DDE	DDD, other related	NA 1080	NA 161	90184	Breakdown	Organochlorine
DDT   S0-29-3   29201   186   Insecticide   Organochlorine   Dicofol   115-32-2   10501   346   Insecticide   Organochlorine   Dicofol   Dicofol   115-32-2   10501   346   Insecticide, Breakdown product   Dicofol						
DDT   50-29-3   29201   186   Insecticide   Organochlorine   Dicofol   115-32-2   10501   346   Insecticide   Organochlorine   Dieldrin   60-57-1   45001   210   Insecticide   Organochlorine   Dienochlor   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,37,8-TCDD)   746-01-6   ##### 4068   Impurity   Organochlorine   Dioxin (0ther than 2,37,8- NA 1319   NA 177   NA 176   Impurity   Organochlorine   Todo   Dioxin (10   10   10   10   10   10   10   10	DDE	72-55-9	NA 129	2092		Organochlorine
Dicofol   115-32-2   10501   346   Insecticide   Organochlorine   Dieldrin   60-57-1   45001   210   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79401   259   Insecticide   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79401   259   Insecticide   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79401   259   Insecticide   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79401   259   Insecticide   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79401   259   Insecticide   Organochlorine   TCDD)   Toxin (other than 2,3,7,8-TCDD)   79402   NA 771   Insecticide   Organochlorine   TCDD   Toxin (other than 2,3,7,8-TCDD)   Toxin	DDT	50.00.0				
Dieldrin   G0-57-1   45001   210   Insecticide, Breakdown product   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Organochlorine   Dioxin (03,37,8-TCDD)   746-01-6   #####   4068   Impurity   Organochlorine   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4068   Impurity   Organochlorine   T146-01-6   #####   4069   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4069   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4069   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4069   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6   #####   4069   Dioxin (other than 2,3,7,8-TCDD)   T146-01-6						
Dieldrin, other related   Dienochlor   Dienochlor   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (0,3,7,8-TCDD)   NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD   TCDD   TCDD   TCDD   Tendosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Dienochlorine   Dienochlori						Organochlorine
Dieldrin, other related   NA 1085   NA 162   90210   Insecticide   Organochlorine	Dielarin	60-57-1	45001	210	1 '	Organochlorine
Dieldrin, other related   NA 1085   NA 162   90210   Insecticide   Organochlorine   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (23,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-TCDD)   NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Endosulfan I (alpha)   959-98-8   79402   NA 771   Insecticide   Organochlorine   Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine   Torganochlorine					ľ	
Dienochlor   2227-17-0   27501   468   Insecticide   Organochlorine   Dioxin (2,37,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,37,8- NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)   Endosulfan   115-29-7   79401   259   Insecticide   Organochlorine   Dioxin (other than 2,37,8- TCDD)   Endosulfan I (alpha)   959-98-8   79402   NA 771   Insecticide   Organochlorine   Dioxin (alpha)   959-98-8   79402   NA 771   Dioxin (alpha)   1031-07-8   79404   4046   Insecticide   Organochlorine   Dioxin (alpha)   1031-07-8   79404   4047   Dioxide   Dranochlorine   Drano	Dieldrin other related	N/A 1006	274.160	00010		
Dioxin (2,3,7,8-TCDD)   1746-01-6   #####   4068   Impurity   Organochlorine   Dioxin (other than 2,3,7,8-   NA 1319   NA 177   NA 176   Impurity   Organochlorine   TCDD)						
Dioxin (other than 2,3,7,8-TCDD)  Randosulfan 115-29-7 79401 259 Insecticide Organochlorine Endosulfan 116-29-7 79401 259 Insecticide Organochlorine Endosulfan II (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan III (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown Organochlorine Endrin 72-20-8 41601 262 Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown Organochlorine Endrin ketone 53494-70-5 41601 5029 Breakdown Organochlorine Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown Organochlorine Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachlorodibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 755684-94-1 ##### NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
TCDD						
Endosulfan (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown product Endrin 72-20-8 41601 262 Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 NA 208 NA 201 Insecticide Organochlorine Organochlorine Hexachlorocyclohexane 608-73-6 NA 208 NA 207 Insecticide Organochlorine Organochlorine Sedevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Organochlorine Na 104 Insecticide Organochlorine Organochlorine Sedevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Organochlorine Organochlorine Sedevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine O		NA 1319	NA 177	NA 176	Impurity	Organochlorine
Endosulfan I (alpha) 959-98-8 79402 NA 771 Insecticide Organochlorine Endosulfan II (beta) 33213-65-9 79403 4046 Insecticide Organochlorine Endosulfan sulfate 1031-07-8 79404 4047 Breakdown product Insecticide, Avicide Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Organochlorine Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Organochlorine Selevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Na 161 Impurity Organochlorine Selevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Organochlorine Organochlorine Selevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Organochlorine Organochlorine Organochlorine Selevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorin		116 20 7	70401	250		
Endosulfan II (beta)   33213-65-9   79403   4046   Insecticide   Organochlorine						
Endosulfan sulfate  Endrin  To-20-8  Endrin  To-20-8  Endrin  To-20-8  Endrin  To-20-8  Endrin aldehyde  Endrin aldehyde  Torganochlorine  Endrin ketone  Torganochlorine  Torga				_		
Endrin 72-20-8 41601 262 Insecticide, Avicide Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product Endrin ketone 53494-70-5 41601 5029 Breakdown product Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
Endrin 72-20-8 41601 262 Insecticide, Avicide  Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Lindosulian sullate	1031-07-8	79404	4047		Organochlorine
Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorocyclopentadiene 118-74-1 61001 321 Microbiocide, Insecticide Insecticide Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 1##### NA 161 Impurity Organochlorine Hexachlorocyclopentadiene 75-3-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Insecticide Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Organochlorine Rodenticide Na 208 NA 208 Insecticide Organochlorine Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Organochlorine Na 208 NA 208 Insecticide Organochlorine Organochlorine Na 208 NA 208 Insecticide Organochlorine Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 Insecticide Organochlorine Na 208 NA 208 NA 208 Insecticide Organochlorine Na 208 NA 208 NA 208 NA 208 Insecticide Organochlorine Na 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208 NA 208	Endrin	72 20 8	41601	262		
Endrin aldehyde 7421-93-4 NA 156 4069 Breakdown product  Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 Insecticide, Rodenticide  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Zikim .	72-20-8	41001	202		Organochlorine
Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachlor dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Insecticide Organochlorine  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Endrin aldehyde	7421-03-4	NA 156	4060		
Endrin ketone 53494-70-5 41601 5029 Breakdown product  Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine  Heptachlor 76-44-8 44801 317 Insecticide Organochlorine  Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachlor dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlor dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorocyclohexane 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclopentadiene 77-47-4 27502 NA 20 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity) 55684-94-1 ##### NA 161 Impurity Organochlorine  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Kelevan 58-89-9 9001 359 Insecticide, Rodenticide  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		7.21 /5-7	1021 150	. 4009		Organochiorine
Endrin, other related NA 1086 NA 162 90262 Insecticide Organochlorine Heptachlor 76-44-8 44801 317 Insecticide Organochlorine Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Endrin ketone	53494-70-5	41601	5020		Oreansalilari
Endrin, other related Heptachlor T6-44-8 Heptachlor epoxide Heptachlor epoxide Heptachlor, other related NA 1089 Heptachlor, other related NA 1089 NA 162 Hexachloro dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorod dibenzo-p-dioxin Hexachlorobenzene  NA 1089 NA 162 Hexachlorobenzene  NA 1089 NA 162 Hexachlorobenzene  NA 1080 Hexachlorobenzene  NA 1080 Hexachlorocyclohexane Hexachlorocyclohexane Hexachlorocyclopentadiene  77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity)  NA 161 Impurity Organochlorine  NA 161 Impurity Organochlorine  NA 161 Impurity Organochlorine  NA 208 NA 207 Insecticide Organochlorine  Na 208 Insecticide Organochlorine  Na 208 Insecticide Organochlorine  Na 208 NA 208 Insecticide Organochlorine  Na 208 NA 208 Insecticide Organochlorine  Na 208 NA 208 Insecticide Organochlorine  Na 208 NA 208 Insecticide Organochlorine		33.7.703	11001			Organochiorine
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Heptachlor epoxide 1024-57-3 44801 4073 Breakdown product  Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine  Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine  Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine  Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine  Hexachlorodibenzofuran (as impurity) Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Kelevan 58-89-9 9001 359 Insecticide, Rodenticide  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Heptachlor	76-44-8				
Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Insecticide Organochlorine Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Organochlorine Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Heptachlor epoxide					
Heptachlor, other related NA 1089 NA 162 90317 Insecticide Organochlorine Hexachloro dibenzo-p-dioxin 34465-46-8 ##### 2587 Impurity Organochlorine Hexachlorobenzene 118-74-1 61001 321 Microbiocide, Fungicide, Insecticide Hexachlorocyclohexane 608-73-1 8901 NA 20 Insecticide Organochlorine Hexachlorocyclopentadiene 77-47-4 27502 NA 21 Insecticide Organochlorine Hexachlorodibenzofuran (as impurity) NA 161 Impurity Organochlorine Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Rodenticide Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine				.075		Organochiorine
Hexachloro dibenzo-p-dioxin34465-46-8#####2587ImpurityOrganochlorineHexachlorobenzene118-74-161001321Microbiocide, Fungicide, InsecticideOrganochlorineHexachlorocyclohexane608-73-18901NA 20InsecticideOrganochlorineHexachlorocyclopentadiene77-47-427502NA 21InsecticideOrganochlorineHexachlorodibenzofuran (as impurity)55684-94-1######NA 161ImpurityOrganochlorineIsodrin465-73-6NA 208NA 207InsecticideOrganochlorineKelevan4234-79-1NA 208NA 208InsecticideOrganochlorineLindane58-89-99001359Insecticide, RodenticideOrganochlorineMethoxychlor72-43-534001384InsecticideOrganochlorine		NA 1089	NA 162	90317		Organochlorine
Hexachlorobenzene  118-74-1  61001  321  Microbiocide, Fungicide, Insecticide  Hexachlorocyclohexane  Hexachlorocyclopentadiene  77-47-4  27502  NA 21  Insecticide  Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin  465-73-6  NA 208  NA 207  Insecticide  Organochlorine  Kelevan  4234-79-1  NA 208  NA 208  NA 208  Insecticide  Organochlorine  Kelevan  4234-79-1  NA 208  NA 208  Insecticide  Organochlorine  Insecticide  Organochlorine  Methoxychlor  72-43-5  34001  Methoxychlor  72-43-5  34001  Methoxychlor  All Insecticide  Organochlorine  Organochlorine  Organochlorine  Organochlorine	Hexachloro dibenzo-p-dioxin	34465-46-8				
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Hexachlorocyclohexane608-73-18901NA 20InsecticideOrganochlorineHexachlorocyclopentadiene77-47-427502NA 21InsecticideOrganochlorineHexachlorodibenzofuran (as impurity)55684-94-1#####NA 161ImpurityOrganochlorineIsodrin465-73-6NA 208NA 207InsecticideOrganochlorineKelevan4234-79-1NA 208NA 208InsecticideOrganochlorineLindane58-89-99001359Insecticide, RodenticideOrganochlorineMethoxychlor72-43-534001384InsecticideOrganochlorine						
Hexachlorocyclopentadiene  77-47-4  27502  NA 21  Insecticide  Organochlorine  Hexachlorodibenzofuran (as impurity)  Isodrin  465-73-6  NA 208  NA 207  Insecticide  Organochlorine  Kelevan  4234-79-1  NA 208  NA 208  Insecticide  Organochlorine  Na 208  Insecticide  Organochlorine  Insecticide  Organochlorine  Na 208  Insecticide  Organochlorine  Organochlorine  Activity  Organochlorine  Na 208  Insecticide  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Activity  Methoxychlor  72-43-5  34001  384  Insecticide  Organochlorine		608-73-1	8901	NA 20		Organochlorine
Hexachlorodibenzofuran (as impurity)  Isodrin  Kelevan  Lindane  Methoxychlor  Texachlorodibenzofuran (as impurity)  #####  NA 161  Impurity  NA 161  Impurity  Organochlorine  NA 208  NA 207  Insecticide  Organochlorine  NA 208  Insecticide,  Rodenticide  Methoxychlor  T2-43-5  A4001  NA 161  Impurity  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine  Organochlorine		77-47-4	27502			
impurity)  Isodrin 465-73-6 NA 208 NA 207 Insecticide Organochlorine  Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine  Lindane 58-89-9 9001 359 Insecticide, Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		55684-94-1				
Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine					*	8
Kelevan 4234-79-1 NA 208 NA 208 Insecticide Organochlorine Lindane 58-89-9 9001 359 Insecticide, Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine		465-73-6	NA 208		Insecticide	Organochlorine
Lindane 58-89-9 9001 359 Insecticide, Organochlorine  Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine	Lindane	58-89-9	9001			
Methoxychlor 72-43-5 34001 384 Insecticide Organochlorine						
				384	Insecticide	Organochlorine
	Methoxychlor, other related	NA 1093	NA 162	90384	Insecticide	Organochlorine

Chemical Name	CAS Number	U.S. EPA PC	CA Char	TT T	
	CUD LAMINOCI	Code	CA Chem Code	Use Type	Chemical Class
Mirex	2385-85-5	39201	402	Topostisi 1.	<del></del>
Nonachlor	3734-49-4	44802	5448	Insecticide	Organochlorine
Oxychlordane	27304-13-8	NA 177	NA 177	Insecticide Breakdown	Organochlorine
	27307-15-0	INA I//	NA 1//		Organochlorine
Oxychlordane, mix of isomers	26880-48-8	NA 177	NA 177	product Breakdown	
	20000 40-0	I TALLY	NA 1//		Organochlorine
Strobane	8001-50-1	20401	553	product Insecticide	
Toxaphene	8001-35-2	80501	594	Insecticide	Organochlorine
trans-Nonachlor	39765-80-5	NA 177	NA 177		Organochlorine
(E)-Mevinphos	298-01-1	15802	NA 143	Insecticide	Organochlorine
(Z)-Mevinphos	338-45-4	15802	NA 144	Insecticide	Organophosphorus
2,5-dichloro-alpha-	2701-86-2	#####	NA 116	Insecticide	Organophosphorus
(chloromethylene)benzyl	2701-00-2	,	14A 110	Insecticide	Organophosphorus
diethyl phosphate					
2,5-dichloro-alpha-	5723-62-6	#####	NA 116	Insecticide	01
(dichloromethylene)benzyl	0.20 02 0	"""""	INATIO	msecucide	Organophosphorus
diethyl phosphate		1			
Acephate	30560-19-1	######	1685	Insecticide	Organombasshassas
Acethion	919-54-0	#####	NA 139	Insecticide	Organophosphorus
Acetoxon	2425-25-4	#####	NA 139	Insecticide,	Organophosphorus
		] """""	1111 137	Breakdown	Organophosphorus
			·	product	
Akton	1757-18-2	84901	1421	Insecticide	Organianhamham
Akton, other related	NA 1131	NA 166	91421	Insecticide	Organophosphorus Organophosphorus
alpha,alpha-Dithiol bis(O,O-	2782-70-9	#####	NA 150	N/A	
dimethyl			1121 150	TVA	Organophosphorus
phosphorodithioate)toluene					
Amidithion	919-76-6	59601	NA 487	Insecticide	Organophosphorus
Amiton	78-53-5	57302	NA 473	Insecticide	Organophosphorus
Amiton oxalate	3734-97-2	57301	NA 472	Insecticide	Organophosphorus
Anilofos	64249-01-0	NA 202	NA 201	Insecticide	Organophosphorus
Athidathion	19691-80-6	#####	NA 141	Insecticide	Organophosphorus
Azamethiphos	35575-96-3	#####	NA 111	Insecticide	Organophosphorus
Azethion	72348-92-6	#####	NA 139	Insecticide	Organophosphorus
Azinphos-ethyl	2642-71-9	58002	4053	Insecticide	Organophosphorus
Azinphos-methyl	86-50-0	58001	314	Insecticide	Organophosphorus
Azinphos-methyl oxygen	NA 1057	NA 157	4054	Breakdown	Organophosphorus
analog				product	Organophiosphorus
Azothoate	5834-96-8	#####	NA 118	Insecticide	Organophosphorus
Bensulide	741-58-2	9801	70	Herbicide	Organophosphorus
Bomyl	122-10-1	84201	77	Insecticide	Organophosphorus
Bromophos	2104-96-3	8706	NA 106	Insecticide	Organophosphorus
Bromophos-ethyl	4824-78-6	#####	NA 122	Insecticide	Organophosphorus
Butamifos	36335-67-8	NA 202	NA 201	Herbicide	Organophosphorus
Butathiofos	90338-20-8	#####	2433	Insecticide	Organophosphorus
' Butonate	126-22-7	35701	255	N/A	Organophosphorus
Cadusafos	95465-99-9	#####	NA 14	Insecticide	Organophosphorus
Carbophenothion	786-19-6	58102	110	Insecticide	Organophosphorus
Chlorethoxyphos	54593-83-8	#####	5106	Insecticide	Organophosphorus
Chlorfenvinphos	470-90-6	84101	306	Insecticide	Organophosphorus
Chlormephos	24934-91-6	#####	NA 136	Insecticide	
Chlorphoxim	14816-20-7	NA 207	NA 206	Insecticide	Organophosphorus
Chlorprazophos	36145-08-1	######	NA 136	Insecticide	Organophosphorus
Chlorpyrifos	2921-88-2	59101	253	Insecticide,	Organophosphorus
		27101	ددے	Nematicide	Organophosphorus
Chlorpyrifos oxygen analog	5598-15-2	59101	5034	Insecticide,	Organouh
		22101	2024	mechicide,	Organophosphorus

Chemical Name	CAS Number	ILC EDA DO	04.01	r	<del></del>
<u>Chemical Ivanic</u>	CAS INUIDEI	U.S. EPA PC Code		<u>Use Type</u>	Chemical Class
	<del>                                     </del>	Code	Code	<u> </u>	
		ļ		Breakdown	
Chlorpyrifos-methyl	5598-13-0	59102	2468	product Insecticide	<del> </del>
Chlorthion	500-28-7	34501	NA 300		Organophosphorus
Chlorthiophos	21923-23-9	#####	2469	Insecticide	Organophosphorus
Chlorthiophos	60238-56-4	#####	NA 919	Insecticide	Organophosphorus
Chlorthiophos II	77503-29-8	#####	NA 919	Insecticide	Organophosphorus
Chlorthiophos III	77503-28-7	#####		Insecticide	Organophosphorus
cis-Azodrin	919-44-8	58902	NA 917	Insecticide	Organophosphorus
cis-Methocrotophos	69632-93-5	#####	NA 482	Insecticide	Organophosphorus
Coumaphos	56-72-4	36501	NA 143	Insecticide	Organophosphorus
Coumaphos, other related	NA 1077	NA 161	165	Insecticide	Organophosphorus
Coumithioate	572-48-5	#####	90165	Insecticide	Organophosphorus
Crotoxyphos	7700-17-6	58801	NA 141	Insecticide	Organophosphorus
Crotoxyphos, other related	NA 1076	NA 161	140	Insecticide	Organophosphorus
Cyanofenphos	13067-93-1	#####	90140	Insecticide	Organophosphorus
Cyanophos	2636-26-2	###### ######	NA 131	Insecticide	Organophosphorus
Cyanthoate	3734-95-0	###### ######	NA 131	Insecticide	Organophosphorus
Cythioate	115-93-5		NA 131	Insecticide	Organophosphorus
DDVP	62-73-7	59501	NA 486	Insecticide	Organophosphorus
DE VI	02-73-7	84001	187	Insecticide,	Organophosphorus
·				Breakdown	
DDVP, other related	NA 1081	94001	00105	product	.,
Demephion-O	682-80-4	84001	90187	Insecticide	Organophosphorus
	002-00-4	#####	NA 143	Insecticide,	Organophosphorus
	ĺ		Ì	Breakdown	
Demephion-S	2587-90-8	######	274 140	product	
Demeton	8065-48-3		NA 143	Insecticide	Organophosphorus
. Benicton	0003-46-3	57601	566	Insecticide,	Organophosphorus
Demeton-O	298-03-3	57(00	371 (51	Nematicide	
Demeton-O-methyl	867-27-6	57602	NA 474	Insecticide	Organophosphorus
Demeton-S	126-75-0	58703	NA 480	Insecticide	Organophosphorus
Demeton-S-methyl	919-86-8	57603	NA 475	Insecticide	Organophosphorus
Demeton-S-methyl (mixture)	8022-00-2	NA 200	NA 200	Insecticide	Organophosphorus
Demeton-S-methyl sulfone	17040-19-6	58701	4063	Insecticide	Organophosphorus
- Demoton-B-inctriyi sunone	17040-19-6	NA 183	NA 182	Breakdown	Organophosphorus
		1		product,	
Dequest 2010 phosphonate	NA 579	NTA 105		Insecticide	
Dialifor	10311-84-9	NA 105	2496	N/A	Organophosphorus
Dialifor, other related	NA 1138	##### NIA 167	1799	Insecticide	Organophosphorus
Diamidafos	1754-58-1	NA 167	91799	Insecticide	Organophosphorus
Diamidalos	1734-38-1	#####	NA 879	Insecticide,	Organophosphorus
Diazinon	333-41-5	57001		Nematicide	
Diazoxon	962-58-3	57801	198	Insecticide	Organophosphorus
Diazoxon	902-38-3	NA 156	4064	Breakdown	Organophosphorus
Dichlofenthion	97-17-6	20601		product	
Diemotentinon	9/-1/-0	28601	614	Insecticide,	Organophosphorus
Dicrotophos	141-66-2	25001		Nematicide	
Dimethoate		35201	72	Insecticide	Organophosphorus
Dimethoate-ethyl	60-51-5	35001	216	Insecticide	Organophosphorus
Dioxabenzofos	116-01-8	#####	NA 147	Insecticide	Organophosphorus
Dioxathion	3811-49-2	#####	NA 112	Insecticide	Organophosphorus
Dioxathion, other related	78-34-2	37801	192	Insecticide	Organophosphorus
	NA 1083	NA 161	90192	Insecticide	Organophosphorus
Diphenprofos Disulfator	59010-86-5	#####	NA 920	Insecticide	Organophosphorus
Disulfoton	298-04-4	32501	230	Insecticide,	Organophosphorus
				Nematicide	

	T				
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Disulfoton sulfone	216746	Code	Code		
Disulfoton sulfoxide	216777	######	NA 140	Insecticide	Organophosphorus
	210///	, <del>"""""</del>	NA 140	Breakdown	Organophosphorus.
Ditalimfos	5131-24-8	#####	NA 891	product	
DMCP	3309-87-3	######	NA 119	Fungicide	Organophosphorus
Edifenphos	17109-49-8	#####	1964	Insecticide Insecticide	Organophosphorus
Endothion	319315	#####	NA 146	Insecticide	Organophosphorus
EPBP	3792-59-4	#####	NA 155	Insecticide	Organophosphorus
EPN	2104-64-5	41801	263	Insecticide	Organophosphorus Organophosphorus
Ethephon	16672-87-0	99801	1626	Plant Growth	Organophosphorus
701				Regulator	Organophosphorus
Ethion	563-12-2	58401	268	Insecticide	Organophosphorus
Ethion, O-analog	17356-42-2	58402	NA 478	Breakdown	Organophosphorus
Ethoprop	10104 40 4			product	- Sample of the same
Биоргор	13194-48-4	41101	404	Insecticide,	Organophosphorus
Ethyl (2-	5840-95-9	111111111111111111111111111111111111111		Nematicide	
mercaptoethyl)carbamate, S-	3040-93-9	#####	NA 149	Insecticide	Organophosphorus
ester of O,O-dimethyl	1		[ ]		
phosphorodithioate					
Ethyl hydrogen 1-	21921-96-0	#####	NA 148	N/A	-
propylphosphonate			1177 1-76	IV/A	Organophosphorus
Etrimfos	38260-54-7	. #####	NA 147	Insecticide	Organowhanila
Famphur	52-85-7	59901	282	Insecticide	Organophosphorus Organophosphorus
Famphur, O-analog	960-25-8	59902	NA 491	Breakdown	Organophosphorus
				product	O1Emiobrioshiroins
Fenamiphos	22224-92-6	######	1857	Insecticide,	Organophosphorus
Fenamiphos sulfone	21070 44 0			Nematicide	S
r champios sunone	31972-44-8	NA 156	4070	Breakdown	Organophosphorus
Fenamiphos sulfoxide	31972-43-7	NA 156	4071	product	
	315/2-45-/	INA 130	4071	Breakdown	Organophosphorus '
Fenitrothion	122-14-5	#####	2520	product Insecticide	<del>   </del>
Fensulfothion	115-90-2	32701	181	Insecticide,	Organophosphorus
			-01	Nematicide	Organophosphorus
Fenthion	55-38-9	53301	63	Insecticide,	Organophosphorus
7 4				Avicide	Organophosphorus
Fenthion oxon	3254-63-5	#####	NA 143	Breakdown	Organophosphorus
Fonofos	044.00.0			product	8photus
Formothion	944-22-9 2540-82-1	41701	254	Insecticide	Organophosphorus
Fosmethilan	83733-82-8	#####	NA 143	Insecticide	Organophosphorus
Fospirate	5598-52-7	NA 208	NA 207	Insecticide	Organophosphorus
Fosthiazate	98886-44-3	#####	1856	Insecticide	Organophosphorus
Fosthietan	21548-32-3	#####	NA 109	N/A	Organophosphorus
	21540-52-5	#####	NA 928	Fumigant,	Organophosphorus
Heptenophos	23560-59-0	#####	NA 122	Nematicide	
Hexylthiofos	41495-67-4	#####	NA 132	Insecticide	Organophosphorus
Iodofenfos	18181-70-9	#####	NA 138	Insecticide Insecticide	Organophosphorus
Iprobenfos	26087-47-8	NA 203	NA 202	Fungicide	Organophosphorus
IPSP	1432970	NA 208	NA 207	Insecticide	Organophosphorus
Isazophos	42509-80-8	#####	2282	Insecticide	Organophosphorus Organophosphorus
Isazophos-methyl	42509-83-1	#####	NA 136	Insecticide	Organophosphorus
Isocarbophos	24353-61-5	#####	2414	Insecticide	Organophosphorus
Isochlorthion	2463-84-5	34502	NA 301	Insecticide	Organophosphorus
Isofenphos	25311-71-1	#####	2194	Insecticide	Organophosphorus
					B-mobmosphorus

Chemical Name	CAS Number	U.S. EPA PC	CA Cha	T	· · · · · · · · · · · · · · · · · · ·
<u>Gasmour Tunic</u>	CAS Humber	Code		Use Type	Chemical Class
Isothioate	36614-38-7		Code	ļ- <u>-</u>	
Isoxathion	<del></del>	NA 208	NA 207	Insecticide	Organophosphorus
	18854-01-8	57802	NA 476	Insecticide	Organophosphorus
Leptophos	21609-90-5	#####	1676	Insecticide	Organophosphorus
Leptophos, other related	NA 1135	NA 167	91676	Insecticide	Organophosphorus
Lythidathion	2669-32-1	#####	NA 147	Insecticide	Organophosphorus
Malaoxon	NA 1054	NA 156	4076	Breakdown	Organophosphorus
				product	
Malathion	121-75-5	57701	367	Insecticide	Organophosphorus
Mecarbam	2595-54-2	#####	NA 140	Insecticide	Organophosphorus
Mecarphon .	29173-31-7	#####	NA 156	Insecticide	Organophosphorus
Menazon	78-57-9	#####	NA 134	N/A	Organophosphorus
Mephosfolan	950-10-7	#####	NA 131	Insecticide	Organophosphorus
Merphos	150-50-5	74901	293	Defoliant, Plant	Organophosphorus
				Growth	O Paragrada
				Regulator	
Merphos, other related	NA 1088	NA 162	90293	Defoliant, Plant	Organophosphorus
				Growth	O II-II-II
				Regulator	
Merpofos	3568-56-7	######	NA 129	N/A	Organophosphorus
Methacrifos	62610-77-9	NA 189	NA 188	Insecticide	Organophosphorus
Methamidophos	10265-92-6	#####	1697	Insecticide,	Organophosphorus
		į		Breakdown	0 1
				product	
Methidathion	950-37-8	#####	1689	Insecticide	Organophosphorus
Methidathion OA	NA 1065	#####	5040	Insecticide	Organophosphorus
Methyl paraoxon	950-35-6	53502	4083	Breakdown	Organophosphorus
				product	8
Methyl parathion	298-00-0	53501	394	Insecticide,	Organophosphorus
				Nematicide	8Prospitorus
Methyl parathion, other related	NA 1094	NA 162	90394	Insecticide,	Organophosphorus
•				Nematicide	8-morno
Methyl phenkapton	3735-23-7	#####	NA 142	N/A	Organophosphorus
Methyl trithion	953-17-3	58101	3531	Insecticide	Organophosphorus
Methyl-carbofenthion	NA 843	NA 157	4057	Insecticide	Organophosphorus
Mevinphos	7786-34-7	15801	480	Insecticide	Organophosphorus
Mevinphos (stereochemistry	26718-65-0	NA 200	NA 200	Insecticide	Organophosphorus
unspecified)					o-g-mophosphorus
Mevinphos, other related	NA 1103	NA 163	90480	Insecticide	Organophosphorus
Miral	42509-80-8	#####	2689	Insecticide	Organophosphorus
Monocrotophos	6923-22-4	58901	52	Insecticide	Organophosphorus
Morphothion	144-41-2	######	NA 143	Insecticide	Organophosphorus
Naled	300-76-5	34401	418	Insecticide	Organophosphorus
Naphthalophos	1491-41-4	#####	NA 117	Insecticide	Organophosphorus
O,O,S-Trimethyl	2953-29-9	#####	NA 161	Impurity	Organophosphorus
phosphorodithiate (as impurity)				impurity	Organophosphorus
O,O-diethyl O-	2668-92-0	#####	NA 138	Insecticide	Organophosphorus
naphthaloximido				IIIDOCIICIAC	Organophosphorus
phosphorothioate					
O,O-diethyl phosphoro	226542	NA 338	2508	Insecticide	Organophosphorus
chloridothionate					~rganohnoshnoms
O,O-Diethyl S-(4,6-dimethyl-	333-40-4	#####	NA 140	Insecticide	Organophosphorus
2-pyrimidinyl)					or Remohinoshinoidiz
phosphorodithioate					į
O,O-diethyl-O-phenyl	32345-29-2	NA 337	2507	Insecticide	Organophosphorus
phosphorothioate			,		Shiondsondones
O,O-dimethyl S-(2-	2674-91-1	58704	NA 481	Insecticide	Organophosphorus
				ALLOCOLLOIGO	Ciganophosphorus

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
(ethylsulfinyl)-1-methylethyl)					
phosphorothioate	·				
O-(2-chloro-4-nitrophenyl) O-	328-04-1	#####	NA 137	N/A	Organophosphorus
isopropyl		ŧ			gpp
ethylphosphonothioate			l i		
O-(4-Nitrophenyl) O-phenyl	2665-30-7	#####	NA 158	N/A	Organophosphorus
methylphosphonothioate					8
O-ethyl O-(4-	2703-13-1	#####	NA 117	N/A	Organophosphorus
(methylthio)phenyl)		:			
methylphosphonothioate					
O-Ethyl S-(4-methylphenyl)	333-43-7	#####	NA 149	N/A	Organophosphorus
. ethylphosphonodithioate					
O-Methyl 2-nitro-4-tolyl	36001-88-4	#####	NA 157	N/A	Organophosphorus
isopropylphosphoramidothioate					
Omethoate	1113-02-6	35002	2285	Insecticide,	Organophosphorus
				Breakdown	g m j m spansim
				product	
Oxydemeton-methyl	301-12-2	58702	382	Insecticide	Organophosphorus
Paraoxon	311-45-5	NA 155	4082	Breakdown	Organophosphorus
				product	Samp aspectation
Parathion	56-38-2	57501	459	Insecticide	Organophosphorus
Parathion	56-38-2	57401	NA 174	Insecticide,	Organophosphorus
				Nematicide	- Samus proofing as
Parathion, other related	NA 1099	NA 163	90459	Insecticide,	Organophosphorus
				Nematicide	8
Phenkapton	2275-14-1	. <del>              </del>	NA 139	Insecticide	Organophosphorus
Phenthoate	253180	######	NA 889	Insecticide	Organophosphorus
Phorate	298-02-2	57201	478	Insecticide,	Organophosphorus
				Nematicide	8
Phorate sulfone	249924	NA 155	4084	Breakdown	Organophosphorus
				product	B
Phorate sulfoxide	249892	NA 155	4085	Breakdown	Organophosphorus
	<u>.                                    </u>			product	B
Phoratoxon	2600-69-3	. NA 155	4086	Breakdown	Organophosphorus
				product	- Sopinorus
Phoratoxon sulfone	NA 1051	NA 155	4087	Breakdown	Organophosphorus
				product	- gampaopaoras
Phoratoxon sulfoxide	249955	NA 155	4088	Breakdown	Organophosphorus
				product	Johnstein
Phosalone	2310-17-0	97701	479	Insecticide	Organophosphorus
Phosalone OA	NA 1066	97701	5041	Insecticide,	Organophosphorus
				Breakdown	gpp
				product	
Phosfolan	947-02-4	######	NA 131	N/A	Organophosphorus
Phosmet	732-11-6	59201	335	Insecticide	Organophosphorus
Phosmetoxon	3735-33-9	59202	4089	Breakdown	Organophosphorus
				product	
Phosnichlor	5826-76-6	34503	NA 302	Insecticide	Organophosphorus
Phosphamidon	13171-21-6	18201	482	Insecticide	Organophosphorus
Phosphamidon, other related	NA 1104	NA 163	90482	Insecticide	Organophosphorus
Phostebupirim	96182-53-5	#####	5122	Insecticide	Organophosphorus
Phoxim	14816-18-3	#####	NA 159	Insecticide	Organophosphorus
Phoxim-methyl	14816-16-1	#####	NA 159	Insecticide	Organophosphorus
Piperophos	24151-93-7	NA 219	NA 218	Herbicide	Organophosphorus
Pirimiphos ethyl	23505-41-1	#####	2781	Insecticide	Organophosphorus
Pirimiphos ethyl, O-analog	36378-61-7	#####	NA 899	Breakdown	Organophosphorus  Organophosphorus
				2100KGOWII	Organophosphorus

Primiphos-methyl   2923-93-7	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Class
Primiphos-methyl   29232-93-7					Coc 1 Abe	Chemical Class
Primiphos-methyl   2923-93-7   ##### NA 127   Insecticide   Organophosphorus   Profenofos   41198-08-7   ##### NA 127   Insecticide   Organophosphorus   Profenofos   41198-08-7   ##### 2042   Insecticide   Organophosphorus   Propaphos   7292-16-2   NA 201   NA 201   Insecticide   Organophosphorus   Propaphos   31218-83-4   ##### 2122   Insecticide   Organophosphorus   Propaphos   322-13-2   ##### NA 139   Insecticide   Organophosphorus   Prothiofos   34643-46-4   ##### NA 139   Insecticide   Organophosphorus   Prothiofos   34643-46-4   ##### NA 140   Insecticide   Organophosphorus   Prothiofos   34643-46-4   ##### NA 140   Insecticide   Organophosphorus   Prothiofos   34643-46-4   ##### NA 140   Insecticide   Organophosphorus   Prothiofos   2275-18-5   ##### NA 140   Insecticide   Organophosphorus   Prothiofos   275-18-5   ##### NA 140   Insecticide   Organophosphorus   Praziophos   13457-18-6   ##### NA 149   Fungicide   Organophosphorus   Praziophos   13457-18-6   ##### NA 149   Fungicide   Organophosphorus   Praziophos   13457-18-6   ##### NA 145   Insecticide   Organophosphorus   Organophosphorus   Praziophos   13593-08-3   ##### NA 145   Insecticide   Organophosphorus   Organophosphorus   Praziophos   13593-08-3   ##### NA 145   Insecticide   Organophosphorus   Praziophos   13593-08-3   ##### NA 145   Insecticide   Organophosphorus   Praziophosphorus				3000	product	
Primidophos	Pirimiphos-methyl	29232-93-7	#####	2217		Organophosphorus
Profenofos						
Propaphos	Profenofos					
Proposon	Propaphos					
Prothidathion   20276-83-9   ##### NA 141   Insecticide   Organophosphorus   Prothidathion   20276-83-9   ##### NA 141   Insecticide   Organophosphorus   Prothion   5969-94-8   ##### NA 141   Insecticide   Organophosphorus   Prothion   5969-94-8   ##### NA 149   Insecticide   Organophosphorus   Prothion   5969-94-8   ##### NA 149   Insecticide   Organophosphorus   Prothionate   2275-18-5   ##### NA 140   Insecticide   Organophosphorus   Pyraclofos   77458-01-6   NA 183   NA 182   Insecticide   Organophosphorus   Pyracophos   77458-01-6   NA 183   NA 182   Insecticide   Organophosphorus   Pyracophos   77458-01-6   NA 183   NA 149   Pungicide   Organophosphorus   Pyracophos   77458-01-6   NA 183   NA 140   Pungicide   Organophosphorus   Organophosphorus   Pyracophos-methyl   13593-08-3   #####   NA 145   Insecticide   Organophosphorus   Organophosphorus   Organophosphorus   Organophosphorus   Organophosphorus   Organophosphorus   Pyracophosphorus	Propetamphos	31218-83-4				
Prothiofnom   20276-83-9   #####   NA 141   Insecticide   Organophosphorus		5823-13-2				
Prothiofos	Prothidathion	20276-83-9	######	NA 141		
Prothoate   2275-18-5   #####   NA 140   Insecticide   Organophosphorus	Prothiofos	34643-46-4	######	4094		
Prothoate 2775-18-5 ##### NA 140 Insecticide Organophosphorus Pyraclofos 77458-01-6 NA 183 NA 182 Insecticide Organophosphorus Pyracophos 13457-18-6 ##### NA 149 Fungicide Organophosphorus Quinalphos 13593-03-8 ##### NA 145 Insecticide Organophosphorus Quinalphos 13593-03-8 ##### NA 145 Insecticide Organophosphorus Quinalphos-methyl 13593-08-3 ##### NA 145 Insecticide Organophosphorus Quinalphos-methyl 13593-08-3 ##### NA 145 Insecticide Organophosphorus Quinothofos 1776-83-6 ##### NA 145 Insecticide Organophosphorus Romnel 22439-40-3 ##### NA 140 Insecticide Organophosphorus Romnel 299-84-3 58301 517 Insecticide Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus Phosphorotrithioate 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Organophosphorus 190 Policiant, Plant Plant Organophosphorus 190 Policiant, Plant Pla		5969-94-8	#####	NA 139	Insecticide	
Pyraclofos 77458-01-6 NA 183 NA 182 Insecticide Organophosphorus Pyrazophos 13457-18-6 ##### NA 149 Fungicide Organophosphorus Pyridiphenthion 119-12-0 53302 NA 450 Insecticide Organophosphorus Quinalphos 13593-03-8 ##### NA 145 Insecticide Organophosphorus Quinalphos-methyl 13593-08-3 ##### NA 145 Insecticide Organophosphorus Quinitofos 1776-83-6 ##### NA 149 Insecticide Organophosphorus Romnel 2299-84-3 58301 517 Insecticide Organophosphorus S,S,S-tributyl 78-48-8 74801 190 Defoliant, Plant Organophosphorus Growth Regulator Growth Regulator S-(1,1-Dimethylethyl) O-ethyl ethylphosphonothioate S-(4-(1,1-dimethylethyl) O-ethyl ethylphosphonodidhioate Sophamide 37032-15-8 ##### NA 144 Insecticide Organophosphorus Sulfotep 3689-24-5 79501 558 Insecticide Organophosphorus Sulfotep 3689-24-5 79501 558 Insecticide Organophosphorus Sulfotep 3689-24-5 79501 558 Insecticide Organophosphorus Sulprofos oxon 38527-90-1 ##### NA 125 Breakdown Dranophosphorus Temephos 3383-96-8 59001 1 Insecticide Organophosphorus Temephos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 13071-79-9 ##### NA 140 Breakdown Organophosphorus Terbufos 10548-10-4 ##### NA 140 Breakdown Organophosphorus Terbufos 10548-10-4 ##### NA 140 Breakdown Organophosphorus Terbufos 10548-10-4 ##### NA 140 Breakdown Organophosphorus Terbufos 22248-79-9 83702 305 Insecticide Organophosphorus Terbufos 2248-79-9 83702 305 Insecticide Organophosphorus Terbufos 2248-79-9 83702 305 Insecticide Organophosphorus Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus Thionazin 297-97-2 32401 305 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Organophosphorus Org			#####	NA 140	Insecticide	
Pyrazophos   13457-18-6   ##### NA 149   Fungicide   Organophosphorus   Pyridiphenthion   119-12-0   53302   NA 450   Insecticide   Organophosphorus   Quinalphos   13593-03-8   ##### NA 145   Insecticide   Organophosphorus   Quinitofos   1776-83-6   ##### NA 145   Insecticide   Organophosphorus   Quinothion   22439-40-3   ##### NA 140   Insecticide   Organophosphorus   Ronnel   299-84-3   58301   517   Insecticide   Organophosphorus   S,S,S-tributyl   78-48-8   74801   190   Defiolant, Plant   Growth   Regulator   Granophosphorus   Granophosphorus   Fa-40-11   Fa-					Insecticide	
Pyridiphenthion   119-12-0   53302   NA 450   Insecticide   Organophosphorus					Fungicide	
Quinalphos-methyl         13593-08-3         ##### NA 145         Insecticide         Organophosphorus           Quinitofos         1776-83-6         ##### NA 149         Insecticide         Organophosphorus           Romel         299-84-3         58301         517         Insecticide         Organophosphorus           S,S,S-tributyl phosphorotrithioate         78-48-8         74801         190         Defoliant, Plant Growth Regulator         Organophosphorus           S-(1,1-Dimethylethyl) O-ethyl ethylposphonothioate         83318-76-7         #####         NA 104         Insecticide         Organophosphorus           S-(4-(1,1-dimethylethyl) O-ethyl ethylphosphonodithioate         329-21-5         #####         NA 143         Insecticide         Organophosphorus           Sulfotep of 2689-24-5         79501         558         Insecticide         Organophosphorus           Sulfotep, other related         NA 1111         NA 164         90558         Insecticide         Organophosphorus           Sulprofos oxon         38527-90-1         #####         NA 125         Breakdown Organophosphorus           Temephos         3383-96-8         59001         1         Insecticide         Organophosphorus           Temephos sulfoxide         17210-55-8         59001         1         Insecticide <td></td> <td></td> <td></td> <td></td> <td>Insecticide</td> <td></td>					Insecticide	
Quinothion         1776-83-6         ##### NA 149         Insecticide         Organophosphorus           Quinothion         22439-40-3         ##### NA 140         Insecticide         Organophosphorus           Ronnel         299-84-3         58301         517         Insecticide         Organophosphorus           S.S.S-tributyl         78-48-8         74801         190         Defoliant, Plant Growth         Organophosphorus           S-(1,1-Dimethylethyl) O-ethyl ethylphosphonothioate         83318-76-7         #####         NA 104         Insecticide         Organophosphorus           S-(4-(1,1-dimethylethyl) O-ethyl ethylphosphonothioate         329-21-5         #####         NA 143         Insecticide         Organophosphorus           Sulprofosphonothidioate         37032-15-8         #####         NA 144         Insecticide         Organophosphorus           Sulfotep other related         NA 1111         NA 164         90558         Insecticide         Organophosphorus           Sulprofos oxon         38527-90-1         #####         NA 125         Breakdown product         Organophosphorus           Temephos sulfoxide         17210-55-8         59002         NA 483         Breakdown product         Organophosphorus           Temephos sulfoxide         17210-55-8         59002						Organophosphorus
Quinothion   22439-40-3   #####   NA 140   Insecticide   Organophosphorus						
Ronnel   299-84-3   58301   517   Insecticide   Organophosphorus   S,S,S-tributy    78-48-8   74801   190   Defoliat, Plant Growth Regulator   Organophosphorus   Growth Regulator   S-(1,1-Dimethylethyl) O-ethyl   83318-76-7   #####   NA 104   Insecticide   Organophosphorus   S-(4,-(1,1-dimethylethyl) phosphonothioate   S-(4,-(1,1-dimethylethyl) phosphonodithioate   S-(4,-(1,1-dimethylethyl) phosphonodithioate   S-(4,-(1,1-dimethylethyl) phosphonodithioate   Sophamide   37032-15-8   #####   NA 144   Insecticide   Organophosphorus   Organophosphorus   Sulfotep, other related   NA 1111   NA 164   90558   Insecticide   Organophosphorus   Sulfotep, other related   NA 1111   NA 164   90558   Insecticide   Organophosphorus   Sulprofos   35400-43-2   #####   2006   Insecticide   Organophosphorus   Organophosphorus   Temephos   3383-96-8   59001   Insecticide   Organophosphorus   Temephos   3383-96-8   59001   Insecticide   Organophosphorus   Temephos   17210-55-8   59002   NA 483   Breakdown product   Terbufos   13071-79-9   #####   2925   Insecticide   Organophosphorus   Terbufos   13071-79-9   #####   NA 140   Breakdown product   Terbufos sulfonide   10548-10-4   #####   NA 140   Breakdown   Organophosphorus   Tetrachlorvinphos   22248-79-9   83702   305   Insecticide   Organophosphorus   Tetrachlorvinphos   261-11-5   83701   NA 34   Insecticide   Organophosphorus   Tetrachlorvinphos   261-11-5   83701   NA 34   Insecticide   Organophosphorus   Thionazin   297-97-2   32401   2939   Insecticide   Organophosphorus   Thionazin   297-97-2   32401   2939   Insecticide   Organophosphorus   Thionazin   297-97-2   32401   2939   Insecticide   Organophosphorus   Triazophos   24017-47-8   #####   3543   Insecticide   Organophosphorus   Trichlorona   327-98-0   #####   5001   Insecticide   Organophosphorus   Organophosphorus   Trichlorona   327-98-0   #####   5001   Insecticide   Organophosphorus   Organophosphorus   Trichlorona   327-98-0   #####   5001   Insecticide   Organophosphorus   Organophosphorus   Trichlorona   327						
S,S,S-tributyl phosphorotrithioate  S-(1,1-Dimethylethyl) O-ethyl ethylphosphonothioate  S-(4-(1,1-dimethylethyl) O-ethyl ethylphosphonothioate  S-(4-(1,1-dimethylethyl) O-ethyl ethylphosphonothioate  S-(4-(1,1-dimethylethyl) D-ethyl ethylphosphonothioate  S-(4-(1,1-dimethylethyl) D-ethyl ethylphosphonodihoate  Sophamide  37032-15-8 ##### NA 143 Insecticide Organophosphorus  Sulfotep 3689-24-5 79501 558 Insecticide Organophosphorus  Sulfotep, other related NA 1111 NA 164 90558 Insecticide Organophosphorus  Sulprofos 35400-43-2 ##### 2006 Insecticide Organophosphorus  Sulprofos oxon 38527-90-1 ##### NA 125 Breakdown product  Temephos 3383-96-8 59001 Insecticide Organophosphorus  Temephos sulfoxide 17210-55-8 59002 NA 483 Breakdown product  Terbufos 13071-79-9 ##### 2925 Insecticide Organophosphorus  Terbufos 13071-79-9 ##### 2925 Insecticide Organophosphorus  Terbufos sulfone 56070-16-7 ##### NA 140 Breakdown Organophosphorus  Terbufos sulfoxide 10548-10-4 ##### NA 140 Breakdown Organophosphorus  Tetrachlorvinphos 22248-79-9 83702 305 Insecticide Organophosphorus  Tetrachlorvinphos 961-11-5 83701 NA 34 Insecticide Organophosphorus  Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus  Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus  Triazophos 24017-47-8 ##### NA 16 Fungicide Organophosphorus  Triazophos 24017-47-8 ##### NA 16 Fungicide Organophosphorus  Trichloronat 327-98-0 ##### 5344 Insecticide Organophosphorus  Vamidothion 2275-23-2 ##### 5044 Insecticide Organophosphorus						Organophosphorus
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S-(1,1-Dimethylethyl) O-ethyl ethylphosphonothioate		/8-48-8	/4801	190		Organophosphorus
S-(1,1-Dimethylethyl) O-ethyl ethylphosphonothioate   S-(4-(1,1-)   329-21-5   #####   NA 143   Insecticide   Organophosphorus	phosphorodianoate		<u> </u>		1 <i>,</i>	
ethylphosphonothioate S-(4-(1,1-dimethylethyl)phenyl) O-ethyl ethylphosphonodithioate Sophamide Sophamide Sophamide Solfotep Solf	S-(1.1-Dimethylethyl) O-ethyl	83318-76-7	************	NIA 104		0 1 1
S-(4-(1,1-dimethylethyl)phenyl) O-ethyl ethylphosphonodithioate		05510-70-7	***************************************	1VA 104	insecticide	Organophosphorus
dimethylethyl)phenyl) O-ethyl ethylphosphonodithioate  Sophamide  Sulfotep  Sulfoted		329-21-5	#####	NA 143	Insecticide	Organonhambama
ethylphosphonodithioate         37032-15-8         ######         NA 144         Insecticide         Organophosphorus           Sulfotep         3689-24-5         79501         558         Insecticide         Organophosphorus           Sulfotep, other related         NA 1111         NA 164         90558         Insecticide         Organophosphorus           Sulprofos         35400-43-2         #####         2006         Insecticide         Organophosphorus           Sulprofos oxon         38527-90-1         #####         NA 125         Breakdown product         Organophosphorus           Temephos         3383-96-8         59001         1         Insecticide         Organophosphorus           Temephos sulfoxide         17210-55-8         59002         NA 483         Breakdown product         Organophosphorus           Terbufos         13071-79-9         #####         2925         Insecticide         Organophosphorus           Terbufos sulfone         56070-16-7         #####         NA 140         Breakdown product         Organophosphorus           Tertachlorvinphos         22248-79-9         83702         305         Insecticide         Organophosphorus           Tetrachlorvinphos         961-11-5         83701         NA 34         Insecticide		+		141145	Inscende	Organophosphorus
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TEPP         107-49-3         79601         577         Insecticide Nematicide         Organophosphorus           Terbufos         13071-79-9         #####         2925         Insecticide, Nematicide         Organophosphorus           Terbufos sulfone         56070-16-7         #####         NA 140         Breakdown product         Organophosphorus           Terbufos sulfoxide         10548-10-4         #####         NA 140         Breakdown product         Organophosphorus           Tetrachlorvinphos         22248-79-9         83702         305         Insecticide         Organophosphorus           Thiometon         5640-15-3         #####         NA 34         Insecticide         Organophosphorus           Thionazin         297-97-2         32401         2939         Insecticide         Organophosphorus           Thionazin, O-analog         7359-55-9         32402         NA 297         Insecticide         Organophosphorus           Triclofos-methyl         57018-04-9         #####         NA 106         Fungicide         Organophosphorus           Trichlorfon         52-68-6         57901         88         Insecticide         Organophosphorus           Trichloronat         327-98-0         ######         5001         Insecticide         Organo	l emephos sulfoxide	17210-55-8	59002	NA 483		Organophosphorus
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Terbufos sulfone  56070-16-7  ##### NA 140 Breakdown product  Terbufos sulfoxide  10548-10-4  ##### NA 140 Breakdown product  Tetrachlorvinphos  22248-79-9  83702 305 Insecticide Organophosphorus  Tetrachlorvinphos  961-11-5  83701 NA 34 Insecticide Organophosphorus  Thiometon 640-15-3  ##### NA 149 Insecticide Organophosphorus  Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus  Thionazin, O-analog  7359-55-9 32402 NA 297 Insecticide, Breakdown product  Tolclofos-methyl 57018-04-9  ##### NA 106 Fungicide Organophosphorus  Triazophos  Triazophos  24017-47-8  ##### 3543 Insecticide Organophosphorus  Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus  Trichloronat 327-98-0  ##### 5001 Insecticide Organophosphorus  Vamidothion 2275-23-2  ##### 3544 Insecticide Organophosphorus	Telbulos	130/1-/9-9	<del>1111111111</del>	2925		Organophosphorus
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Tetrachlorvinphos 22248-79-9 83702 305 Insecticide Organophosphorus Tetrachlorvinphos 961-11-5 83701 NA 34 Insecticide Organophosphorus Thiometon 640-15-3 ##### NA 149 Insecticide Organophosphorus Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus Thionazin, O-analog 7359-55-9 32402 NA 297 Insecticide, Organophosphorus Breakdown product Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Terbufos sulfoxide	10548-10-4	######	NA 140		Organonhamba
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Tetrachlorvinphos 961-11-5 83701 NA 34 Insecticide Organophosphorus Thiometon 640-15-3 ##### NA 149 Insecticide Organophosphorus Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus Thionazin, O-analog 7359-55-9 32402 NA 297 Insecticide, Breakdown product Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Tetrachlorvinphos	22248-79-9	83702	305		Organophosphospic
Thiometon 640-15-3 ##### NA 149 Insecticide Organophosphorus Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus Thionazin, O-analog 7359-55-9 32402 NA 297 Insecticide, Breakdown product Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Tetrachlorvinphos					
Thionazin 297-97-2 32401 2939 Insecticide Organophosphorus Thionazin, O-analog 7359-55-9 32402 NA 297 Insecticide, Breakdown product Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Thiometon	640-15-3				
Thionazin, O-analog 7359-55-9 32402 NA 297 Insecticide, Breakdown product  Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus  Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus  Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus  Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus  Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Thionazin	297-97-2				
Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus	Thionazin, O-analog	7359-55-9				
Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus						
Tolclofos-methyl 57018-04-9 ##### NA 106 Fungicide Organophosphorus Triazophos 24017-47-8 ##### 3543 Insecticide Organophosphorus Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus						
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Trichlorfon 52-68-6 57901 88 Insecticide Organophosphorus Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus				3543	Insecticide	
Trichloronat 327-98-0 ##### 5001 Insecticide Organophosphorus  Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus						
Vamidothion 2275-23-2 ##### 3544 Insecticide Organophosphorus					Insecticide	
- Tungloide, Other Cardamate	3-10do-2-propynyl butyl	55406-53-6	#####	1938	Fungicide,	Other Carbamate

Chemical Name         CAS Number         U.S. EPA PC Code         CA Chem Code         Use Type         Chemical Chemical Chemical Code           carbamate         Code         Wood Preservative         Wood Preservative         Wood Preservative           6-Methyl-2-propyl-4-pyrimidinyl dimethylcarbamate         83130-01-2         NA 175         NA 47         Insecticide         Other Carb Other Carb Other Carb Other Carb Asulam         3337-71-1         ######         5076         Herbicide         Other Carb Other C	amate amate amate amate amate amate amate amate amate amate amate amate
Preservative   Preservative	amate amate amate amate amate amate amate amate amate amate amate amate
6-Methyl-2-propyl-4- pyrimidinyl dimethylcarbamate  Alanycarb  Asulam  Asulam, sodium salt  Benfuracarb  Chlorprocarb  Chlorprocarb  Chlorpropham  101-21-3  Diethofencarb  Benfuracarb  Benfuracarb  Chlorprocarb  Chlorprocarb  Chlorpropham  101-21-3  Diethofencarb  Benfuracarb  Benfuracarb  Benfuracarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Chlorprocarb  Benfuracarb  Benfu	amate amate amate amate amate amate amate amate amate amate amate amate
Diethofencarb   S7130-20-9   NA 184   NA 183   Insecticide   Other Carb	amate amate amate amate amate amate amate amate amate amate amate amate
Alanycarb   83130-01-2   NA 175   NA 47   Insecticide   Other Carb	amate amate amate amate amate amate amate amate amate amate amate
Asulam         3337-71-1         ######         5076         Herbicide         Other Carb           Asulam, sodium salt         2302-17-2         ######         1746         Herbicide         Other Carb           Benfuracarb         82560-54-1         ######         NA 48         Insecticide         Other Carb           Chlorbufam         1967-16-4         ######         NA 157         Herbicide         Other Carb           Chlorprocarb         23121-99-5         ######         NA 136         Herbicide         Other Carb           Chlorpropham         101-21-3         18301         141         Herbicide, Plant Growth         Other Carb           Plant Growth         Regulator         Regulator         NA 184         NA 183         Fungicide         Other Carb           Dimetan         122-15-6         ######         NA 112         Insecticide         Other Carb	amate amate amate amate amate amate amate amate amate amate amate
Asulam, sodium salt         2302-17-2         ######         1746         Herbicide         Other Carb           Benfuracarb         82560-54-1         ######         NA 48         Insecticide         Other Carb           Chlorbufam         1967-16-4         ######         NA 157         Herbicide         Other Carb           Chlorprocarb         23121-99-5         ######         NA 136         Herbicide         Other Carb           Chlorpropham         101-21-3         18301         141         Herbicide, Other Carb           Plant Growth Regulator         Plant Growth Regulator         NA 183         Fungicide         Other Carb           Dimetan         122-15-6         ######         NA 112         Insecticide         Other Carb	amate amate amate amate amate amate amate amate amate amate
Benfuracarb         82560-54-1         #####         NA 48         Insecticide         Other Carb           Chlorbufam         1967-16-4         ######         NA 157         Herbicide         Other Carb           Chlorprocarb         23121-99-5         ######         NA 136         Herbicide         Other Carb           Chlorpropham         101-21-3         18301         141         Herbicide, Other Carb           Plant Growth         Regulator           Diethofencarb         87130-20-9         NA 184         NA 183         Fungicide         Other Carb           Dimetan         122-15-6         ######         NA 112         Insecticide         Other Carb	amate amate amate amate amate amate amate amate amate
Chlorbufam         1967-16-4         #####         NA 157         Herbicide         Other Carb           Chlorprocarb         23121-99-5         #####         NA 136         Herbicide         Other Carb           Chlorpropham         101-21-3         18301         141         Herbicide, Other Carb         Other Carb           Plant Growth Regulator         Regulator         NA 183         Fungicide         Other Carb           Dimetan         122-15-6         ######         NA 112         Insecticide         Other Carb	amate amate amate amate amate amate
Chlorprocarb         23121-99-5         ######         NA 136         Herbicide         Other Carb           Chlorpropham         101-21-3         18301         141         Herbicide, Plant Growth Regulator         Other Carb           Diethofencarb         87130-20-9         NA 184         NA 183         Fungicide         Other Carb           Dimetan         122-15-6         ######         NA 112         Insecticide         Other Carb	amate amate amate amate amate amate
Chlorpropham 101-21-3 18301 141 Herbicide, Plant Growth Regulator  Diethofencarb 87130-20-9 NA 184 NA 183 Fungicide Other Carb  Dimetan 122-15-6 ###### NA 112 Insecticide Other Carb	amate amate amate amate
Plant Growth Regulator Diethofencarb 87130-20-9 NA 184 NA 183 Fungicide Other Carb Dimetan 122-15-6 ###### NA 112 Insecticide Other Carb	amate amate amate
Diethofencarb 87130-20-9 NA 184 NA 183 Fungicide Other Carb Dimetan 122-15-6 ###### NA 112 Insecticide Other Carb	amate amate
Diethofencarb 87130-20-9 NA 184 NA 183 Fungicide Other Carb Dimetan 122-15-6 ###### NA 112 Insecticide Other Carb	amate amate
Dimetan 122-15-6 ##### NA 112 Insecticide Other Carb	amate amate
	amate
Dimetiles   C44 C4.4   00101   374 044   7 1111   04 014	
Dimetilan 644-64-4 90101 NA 844 Insecticide Other Carb Fenoxycarb 79127-80-3 ###### 2283 Insecticide. Other Carb	amate
Fenoxycarb 79127-80-3 ##### 2283 Insecticide, Other Carb	l
1	
Fenoxycarb 72490-01-8 NA 228 NA 228 Insecticide, Other Carb	
Insecticities, Other Carb	amate
Regulator	
Isolan 119-38-0 ##### NA 155 Insecticide Other Carb	amate
Karbutilate 4849-32-5 97401 691 Herbicide Other Carb	
Mecarbinizid 27386-64-7 ###### NA 157 N/A Other Carb	
Nitrilacarb 29672-19-3 ##### NA 129 Insecticide Other Carb	
Potassium asulam 14089-43-1 ##### NA 893 Herbicide Other Carb	
Propamocarb 24579-73-5 ##### 2147 Fungicide Other Carb	
Propamocarb hydrochloride 25606-41-1 ##### 4022 Fungicide Other Carb	
Propham 122-42-9 47601 339 Herbicide, Other Carb	
Plant Growth	
Regulator	
Pyrolan 87-47-8 ##### NA 157 Insecticide Other Carb	
Swep 1918-18-9 84601 4098 N/A Other Carb	amate
Chlorfenapyr 122453-73-0 ###### 3938 Insecticide Pyrazo	
Pyrazoxyfen 71561-11-0 NA 189 NA 189 Herbicide Pyrazo	
Tebufenpyrad 119168-77-3 90102 NA 845 Insecticide Pyrazo	
(+-)-cis,trans-Deltamethrin 120710-23-8 ##### NA 120 Insecticide Pyrethro	
(+)-cis-Permethrin 52341-33-0 ##### NA 120 Insecticide Pyrethro	
(S)-Cypermethrin 66841-24-5 ###### 3866 Insecticide Pyrethre 6-chloropiperonyl 2,2- 70-43-9 ##### NA 124 Insecticide Pyrethre	
6-chloropiperonyl 2,2- 70-43-9 ##### NA 124 Insecticide Pyrethrodimethyl-3-(2-	oid
methylpropenyl)cyclopropanec	
arboxylate	
Acrinathrin 101007-06-1 ##### NA 4 Insecticide Pyrethro	
Allethrin 584-79-2 4001 12 Insecticide Pyrethro	
Allethrin Coil NA 1163 4002 NA 163 Insecticide Pyrethro	
Allethrin, other related NA 1070 NA 160 90012 Insecticide Pyrethro	
B-fenvalerate 66267-77-4 ##### NA 903 Insecticide Pyrethro	
Beta-cyfluthrin 68359-37-5 ###### 3956 Insecticide Pyrethro	
Bifenthrin 82657-04-3 ##### 2300 Insecticide Pyrethro	
Bioresmethrin 28434-01-7 97802 NA 855 Insecticide Pyrethro	
Cismethrin 35764-59-1 97804 NA 857 Insecticide Pyrethro	
Cyclethrin 97-11-0 4052 NA 69 N/A Pyrethro	
Cycloprothrin 63935-38-6 NA 204 NA 203 Insecticide Pyrethro	
Cyfluthrin 68359-37-5 ##### 2223 Insecticide Pyrethro	

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Cyhalothrin	68085-85-8	<u>Code</u> #####	Code		
Cypermethrin (stereochemistry	52315-07-8	###### ######	NA 104	Insecticide	Pyrethroid
unspecified)		·	NA 172	Insecticide	Pyrethroid
Cypermethrin, alpha	67375-30-8	######	NA 120	Insecticide	Pyrethroid
Cypermethrin, beta	65731-84-2	######	2171	Insecticide	Pyrethroid
Cypermethrin, theta	71697-59-1	NA 200	NA 199	Insecticide	Pyrethroid
Cyphenothrin	39515-40-7	#####	3885	Insecticide	Pyrethroid
D-Allethrin	42534-61-2	4005	2293	Insecticide	Pyrethroid
D-allethrin, other related	NA 1151	NA 168	92293	Insecticide	Pyrethroid
D-cis-trans Allethrin	42534-61-2	4005	NA 163	Insecticide	Pyrethroid
D-trans Allethrin	28057-48-9	4003	4038	Insecticide	Pyrethroid
D-trans allethrin, other related	NA 1154	NA 173	94038	Insecticide	Pyrethroid
Deltamethrin	52918-63-5	97805	3010	Insecticide	Pyrethroid
Deltamethrin (isomer unspecified)	52820-00-5	######	NA 120	Insecticide	Pyrethroid
Deltamethrin, other related	NA 1153	NA 169	93010	Insecticide	Demost
Dimethrin	70-38-2	34101	NA 299	Insecticide	Pyrethroid
Empenthrin [(1R)isomers]	54406-48-3	NA 202	NA 202	Insecticide	Pyrethroid
Esbiothrin	28434-00-6	4004	4040	Insecticide	Pyrethroid
Esfenvalerate	66230-04-4	#####	2321	Insecticide	Pyrethroid
Fenpropathrin	39515-41-8	#####	2234	Insecticide	Pyrethroid
Fenpropathrin	64257-84-7	NA 201	NA 200	Insecticide	Pyrethroid
Fenvalerate	51630-58-1	#####	1963	Insecticide	Pyrethroid
Fenvalerate	51630-58-1	#####	NA 173		Pyrethroid
Fenvalerate, other related	NA 1143	NA 167	91963	Insecticide	Pyrethroid
Flucythrinate	70124-77-5	#####		Insecticide	Pyrethroid
Flumethrin	69770-45-2	NA 219	2168	Insecticide	Pyrethroid
Fluvalinate (stereochemistry	69409-94-5	######	NA 218	Insecticide	Pyrethroid
unspecified)			2195	Insecticide	Pyrethroid
Furethrin	17080-02-3	#####	NA 150	Insecticide	Pyrethroid
Halfenprox	111872-58-3	NA 189	NA 188	Insecticide	Pyrethroid
Imiprothrin	72963-72-5	4006	5327	Insecticide	Pyrethroid
Lambda cyhalothrin	91465-08-6	#####	2297	Insecticide	Pyrethroid
Permethrin	52645-53-1	#####	2008	Insecticide	Pyrethroid
Permethrin, other related	NA 1146	NA 168	92008	Insecticide	Pyrethroid
Phenothrin	26002-80-2	69005	2093	Insecticide	Pyrethroid
Phenothrin, other related	NA 1147	NA 168	92093	Insecticide	Pyrethroid
Prallethrin	23031-36-9	#####	3985	Insecticide	Pyrethroid
Pyrethrins and pyrethroids, manufg. Residues	68648-44-2	69007	NA 611	Insecticide	Pyrethroid
Resmethrin	10453-86-8	97801	2119	Ingodialia	
Resmethrin, other related	NA 1148	NA 168		Insecticide	Pyrethroid
S-Bioallethrin	28434-00-6	4004	92119	Insecticide	Pyrethroid
Tau-fluvalinate	102851-06-9	NA 201	4039	Insecticide	Pyrethroid
Tefluthrin	79538-32-2	#####	NA 200	Insecticide	Pyrethroid
Tetramethrin	7696-12-0		3839	Insecticide	Pyrethroid Pyrethroid
Tetramethrin, other related	NA 1137	69003	1695	Insecticide	Pyrethroid
Tralomethrin		NA 167	91695	Insecticide	Pyrethroid
Transfluthrin	66841-25-6	#####	2329	Insecticide	Рутеthroid
(Poly-N-acetylD-	118712-89-3	NA 206	NA 205	Insecticide	Pyrethroid
glucosamine)-protein	9012-76-4	#####	2792	. Plant Growth	Animal derived
Precognitume)-broteiu	į			Regulator,	
Ammoniated caseinate	0005 42 0	- NIA 505		Fungicide	
Androsterone	9005-42-9	NA 539	3579	N/A	Animal derived
ATIGIOSIEI OILE	53-41-8	#####	NA 101	Deer Repellent	Animal derived

Chemical Name	CAS Number	IIC EDA DO	CA Char		
<u>Onomour rame</u>	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Animal gland extracts	NA 63	NA 118	<u>Code</u> 1345	Rodenticide	<u> </u>
Animal glue	NA 792	NA 147	3581	Rodenticide,	Animal derived
8-00	1417,52	100.14/	2201	Bird Repellent	Animal derived
Beef fat	NA 637	NA 117	3585	Bait	Animal derived
Bone meal	NA 584	NA 106	3589	N/A	Animal derived
Bone oil	8001-85-2	10801	78	Dog and Cat	Animal derived
			,,,	Repellent	Ammai derived
Calcium salts of casein and soy	NA 665	NA 123	1252	N/A	Animal derived
Casein	9000-71-9	NA 152	1075	N/A	Animal derived
Cat food	NA 796	NA 147	3602	Bait	Animal derived
Cheese	NA 222	NA 429	3604	Bait	Animal derived
Chitin	1398-61-4	#####	NA 109	Nematicide	Animal derived
Clam shells	NA 797	NA 147	3611	N/A	Animal derived
Cod liver oil	8001-69-2	31609	2250	N/A	Animal derived
Dried blood	68911-49-9	611	1315	Dog and Cat	Animal derived
				Repellent	3
Dry milk solids	NA 149	NA 284	1976	N/A	Animal derived
Egg shells	NA 141	NA 275	3649	N/A	Animal derived
Eggs	NA 802	NA 148	3648	N/A ·	Animal derived
Elanco empty gelatin capsules	NA 142	NA 276	2543	N/A	Animal derived
Fish meal	NA 123	NA 237	2571	N/A	Animal derived
Fish oil	8016-13-5	#####	3658	Adjuvant, Deer	Animal derived
<b>,</b> .				Repellent, Dog	
				and Cat	
Game repellent	NA 1490	NA 221	NTA 201	Repellent	
Gardol	137-16-6	174	NA 221	Deer Repellent	Animal derived
- Gardor	157-10-0	1/4	3210	Dog and Cat	Animal derived
Gelatin	9000-70-8	NA 222	3660	Repellent Insecticide	Amirral desired
Gelatin capsules, R.P. Scherer	NA 574	NA 104	2577	N/A	Animal derived Animal derived
Hydrolyzed proteins	NA 1355	NA 192	NA 192	Bait	Animal derived  Animal derived
Jaguar	NA 76	NA 147	2146	Deer Repellent	Animal derived  Animal derived
Lard	61789-99-9	NA 143	3675	N/A	Animal derived  Animal derived
Lion waste	NA 571	NA 103	1301	Deer Repellent	Animal derived  Animal derived
Meat	NA 53	NA 100	3681	Bait	Animal derived  Animal derived
Meat meal	NA 570	#####	3682	Bait, Deer	Animal derived  Animal derived
				Repellent, Dog	7 Milliar GCIIVEG
				and Cat	
				Repellent	
Meat scraps	NA 54	NA 101	3683	Bait	Animal derived
Meat stock, Hormel #6	NA 618	NA 112	2670	Bait	Animal derived
Milk	8049-98-7	NA 64	3564	N/A	Animal derived
Nutria meat	NA 24	NA 36	3702	Bait	Animal derived
Oil of mink	NA 10	NA 14	1961	N/A	Animal derived
Oyster shells	NA 808	NA 149	3714	N/A	Animal derived
Pig tasties	NA 594	NA 107	3730	N/A	Animal derived
Powdered gelatin	NA 760	NA 137	2827	N/A	Animal derived
Putrescent whole egg solids	51609-52-0	#####	1935	Insecticide,	Animal derived
Shellac	9000-59-3	NA 100	2270	Deer Repellent	
Silkworm pupae	NA 464	NA 109	3378	N/A	Animal derived
Sodium caseinate	9005-46-3	NA 828	2855	N/A	Animal derived
Sperm oil	8002-24-2	NA 836	3389	N/A	Animal derived
Whey	NA 560	99701 NA 101	NA 868	N/A	Animal derived
203	14A J00	11V 101	3825	N/A	Animal derived

Chemical Name	CAS Number	U.S. EPA PO	CA Cham	I I or The	
	<u>OZAO IVAINOCI</u>	Code	Code	Use Type	Chemical Class
Wool	NA 566	NA 102	3826	N/A	A
(-)alphaCubebene	17699-14-8	#####	NA 130	Insecticide	Animal derived
(7S)-Hydroprene	65733-18-8	######	NA 107	Insect Growth	Botanical
, , , , , , , , , , , , , , , , , , , ,	35755 10 0	1 """"	INA 107	Regulator	Botanical
1-naphthaleneacetamide	86-86-2	56001	422	Plant Growth	Dotomical
(NAD)			722	Regulator	Botanical, Naphthalene acetic
			i	Rogalator	acid derivati
2-methoxy-5-nitro phenol,	67233-85-6	#####	5117	Plant Growth	Botanical
sodium salt				Regulator	Dominical
2-Naphthyloxyacetamide	NA 1401	NA 197	NA 196	Plant Growth	Naphthalene acetic.
				Regulator,	acid derivati,
2.7.1:				Herbicide	Botanical
3,7-dimethyl-6-octanol	106-22-9	NA 129	2140	Insect	Botanical
27 1 1 1 1			<u> </u>	Repellent	
3,7-dimethyl-6-octen-1-ol	150-84-5	NA 307	2522	Insect	Botanical
acetate Acacia	0501766	553 45 5		Repellent	
Alfalfa	2591766	NA 696	2346	N/A	Botanical
Alfalfa meal	NA 635	NA 116	3569	N/A	Botanical
Algin	NA 393	NA 714	3570	N/A	Botanical
	9005-38-3	NA 715	3571	N/A	Botanical
Almond hulls	NA 280	NA 547	3577	N/A	Botanical
Almond shells	NA 636	NA 117	3578	N/A	Botanical
Alpha-ionone	127-41-3	#####	1518	Dog and Cat	Botanical
Alpha pinana palaman	21202 00 0	77.1.75		Repellent	
Alpha-pinene polymer	31393-98-3	NA 153	3996	Insecticide	Botanical
Amycol potato alpha starch	NA 272	NA 527	2387	N/A	Botanical
Apple pomace Avermectin	NA 262	NA 517	3582	N/A	Botanical
Avermectin B1	71751-41-2	#####	2254	Insecticide	Botanical
Avermectin, other related	65195-55-3	#####	NA 165	Insecticide	Botanical
Azadirachtin	NA 1156	NA 174	92254	Insecticide	Botanical
Azadirachun	11141-17-6	#####	2328	Insecticide,	Botanical
Azadirachtin B	95507-03-2	#####	274 000	Nematicide	
Balsam peru	NA 660		NA 989	Insecticide	Botanical
Barley straw	NA 873	NA 122	1146	N/A	Botanical
Beeswax (yellow and white)	NA 245	NA 160	5138	N/A	Botanical
Beet powder	NA 246	NA 494	3586	N/A	Botanical
Beta-caryophyllene		NA 495	3587	N/A	Botanical
Beta-pinene polymer	87-44-5	NA 439	2188	N/A	Botanical
Bran	68240-09-5	NA 153	3998	Insecticide	Botanical
Bread crumbs	NA 638	NA 117	3590	N/A	Botanical
Buffalo gourd root powder	NA 793	NA 147	3591	Bait	Botanical
Calf's Milk Replacer	NA 238	NA 475	3928	N/A	Botanical
Canary seed	NA 1320	NA 177	5741	N/A	Botanical
Capsicum oleoresin	NA 583	NA 105	3597	Bait	Botanical
Cardboard	404-86-4	70701	470	Insecticide	Botanical
	NA 795	NA 147	3599	N/A	Botanical
Carrageenan	2591943	NA 437	3600	Adjuvant	Botanical
Chlorophyllin	NA 226	NA 438	3601	N/A	Botanical
Chlorophyllin	11006-34-1	NA 191	NA 190	Fungicide,	Inorganic-Copper,
Cinerin I	25402.00.0	60000	771	Microbiocide	Botanical
Cinerin II	25402-06-6	69009	NA 612	Insecticide	Botanical
Cinnamaldehyde	121-20-0	69010	NA 613	Insecticide	Botanical
Chinamaidenyde	104-55-2	40506	2277	Dog and Cat	Botanical
				Repellent,	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Ohamia 1 Ol
	31151,441001	Code	Code	<u>Ose Type</u>	Chemical Class
	<del></del>		3000	Fungicide, Dog	
				and Cat	
				Repellent	
Cinnamon	NA 217	######	3607	Insecticide	Botanical
cis-Zeatin	NA 1342	NA 191	NA 190	Plant Growth	Botanical
				Regulator	
Citronellal	106-23-0	NA 223	NA 223	Insect	Botanical
				Repellent	
Citronellol	106-22-9	NA 306	2139	Insecticide	Botanical
Citrus extract	NA 1457	NA 216	NA 215	N/A	Botanical
Citrus meal	NA 214	NA 407	3608	N/A	Botanical
Citrus pectin	NA 215	NA 408	3609	N/A	Botanical
Citrus pulp	NA 216	NA 409	3610	N/A	Botanical
Clarified hydrophobic extract	8002-65-1	25006	3979	Insecticide	Botanical
of neem oil			<u> </u>		
Clarified hydrophobic neem oil	8002-65-1	25007	NA 172	Insecticide	Botanical
Cloves, Crushed	NA 962	######	2333	Insecticide	Botanical
Coco shell flour	NA 200	NA 392	3617	N/A	Botanical
·Cocoa	NA 207	NA 398	3613	N/A	Botanical
Cocoa shells	NA 640	NA 117	3614	N/A	Botanical
Coffee grounds	NA 581	NA 105	3619	· N/A	Botanical
Components of etheric oils of	NA 1360	NA 193	NA 192	Insecticide	Botanical
plant origin	· · · · · · · · · · · · · · · · · · ·				
Cork	NA 798	NA 147	3622	N/A	Botanical
Corn	NA 879	NA 169	5144	Bait	Botanical
Corn cobs	NA 193	NA 383	3624	N/A	Botanical
Corn flour	NA 799	NA 147	3625	N/A	Botanical
Corn gluten meal	66071-96-3	######	2481	Herbicide	Botanical
Corn product, hydrolyzed	NA 710	NA 130	2322	Herbicide	Botanical
Cotton	NA 188	NA 376	3629	N/A	Botanical
Cotton fibre cord	NA 189	NA 377	2482	N/A	Botanical
Cottonseed flour	12751-36-9	NA 129	2078	N/A	Botanical
Cottonseed meal	NA 190	NA 378	3630	N/A	Botanical
Cracked oats	NA 801	NA 148	3632	Bait	Botanical
Cracked wheat	NA 192	NA 380	3633	Bait	Botanical
Creosote, wood	8021-39-4	25002	NA 202	Wood	Botanical
				Preservative	
Cube extracts	NA 958	71004	756	Insecticide	Botanical
Cytokinin	525-79-1	######	2082	Plant Growth	Botanical
				Regulator	
Cytokinin (as kinetin)	525-79-1	#####	NA 172	Plant Growth	Botanical
Douber - 2	371 1051			Regulator	
Daphne oil	NA 1354	NA 192	NA 192	Insect	Botanical
Derris resins other than	NIA 1260	71001		Repellent	
rotenone	NA 1260	71001	NA 172	Insecticide	Botanical
Desmodium	NA 1560	NA 227	NIA COO		
Digitalis .	71-63-6		NA 227	Insecticide	Botanical
Digitalis .  Digitalis	1339-93-1	97002	NA 850	N/A	Botanical
Dihydroazadirachtin		97002	NA 851	N/A	Botanical
	108189-58-8	#####	3994	Insecticide,	Botanical
DMN	571-58-4	55802	5067	Nematicide	
	J/1-J0-4	33002	5067	Plant Growth	Botanical
Douglas fir bark, ground	NA 156	NA 292	3647	Regulator N/A	Deteriori
			304/	IN/A	Botanical

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	332 7160	Chemical Class
Emamectin, benzoate	137512-74-4	#####	4020	Insecticide	Botanical
Ethylene glycol ether of pinene	53404-49-2	42101	NA 363	Insecticide	Botanical
Eugenol	97-53-0	######	2095	Pheromone,	Botanical
				Fragrance, Dog	
1	İ	1	1	and Cat	
				Repellent,	
			1	Insecticide,	
Ì				Insect	
Fanyanala	NTA 101	271 004	-	Repellent	
Fenugreek Flour	NA 121	NA 234	3657	N/A	Botanical
Flowers of Chamomile	NA 120	NA 232	3659	N/A	Botanical
(Matricaria chamomilla and/or	NA 1267	<del>#####</del>	NA 173	Insecticide	Botanical
Anthemidis nobilis)					
Folic acid	59-30-3	NA 191	374 100	77	
Tone acid	J9-3U-3	NA 191	NA 190	Plant Growth	Botanical
Garlic	8000-78-0	<del> </del>	2213	Regulator Insecticide	
Geraniol	106-24-1	#####	309		Botanical
- Columnos	100-24-1	<del>1111111111111111111111111111111111111</del>	309	Pheromone,	Botanical
				Fragrance, Insecticide,	
				Insecticide,	
:				Repellent, Dog	
•				and Cat	
				Repellent	
Gibberellic acid, 2-butoxyethyl	6550-86-3	43803	NA 371	Plant Growth	Botanical
ester				Regulator	
Gibberellin A4 mixt. With	8030-53-3	#####	NA 952	Plant Growth	Botanical
gibberellin A7	55.06.5			Regulator	
Gibberellins	77-06-5	43801	310	Plant Growth	Botanical
Gibberellins, potassium salt	125-67-7	42000	771	Regulator	
Gibberennis, potassium sait	123-07-7	43802	771	Plant Growth	Botanical
Grape pomace	NA 880	NA 169	5145	Regulator	
Griseofulvin	126-07-8	######	NA 150	N/A	Botanical
Ground corn cobs	NA 732	NA 133	2583	N/A	Botanical
Ground oats	NA 804	NA 148	.3664	N/A	Botanical
Ground rice hulls	NA 108	NA 212	2584	Bait N/A	Botanical
Ground sesame plant	NA 109	#####	2585		Botanical
P	141105	nunur	2363	Insecticide, Nematicide	Botanical
Guar gum	9000-30-0	NA 103	3666	Adjuvant	Botanical
Gum resins	9000-75-3	99401	NA 866	Adjuvant	Botanical
Gum Thus	2244967	84502	NA 834	Adjuvant	Botanical
Gum tragacanth	9000-65-1	NA 213	3218	Adjuvant	Botanical
Hearts of corn flour	NA 573	NA 104	3667	N/A	Botanical
Hellebore alkaloids	1399-70-8	2001	NA 65	N/A	Botanical Botanical
Humic acid	1415-93-6	NA 134	2597	N/A	Botanical
Hydroprene	41096-46-2	#####	2244	Insect Growth	Botanical
			' '	Regulator	Dotalical
Indole	120-72-9	25000	2614	Insecticide,	Botanical
1		-		Insect	Dominical
ŀ	ļ			Repellent, Dog	
1	1			and Cat	
T-1-1-2				Repellent	
Indole-3-acetic acid	87-51-4	#####	NA 106	Plant Growth	Botanical
				Regulator	

Jasmolin   4466-14-2   69011   NA 614   Insecticide   Botanical   Jasmolin II   1172-63-0   69012   NA 615   Insecticide   Botanical   Juniperus communis ext.   34603-69-0   67212   NA 575   Insecticide   Botanical   Juniperus communis ext.   44603-69-0   67212   NA 582   Insecticide   Botanical   Juniperus communis ext.   44603-69-0   67212   NA 582   Insecticide   Botanical   Juniperus communis ext.   44603-69-0   67212   NA 582   Insecticide   Botanical   Larkspur alkaloid   41710-20-7   2202   NA 66   N/A   Botanical   Laves of Eucalyptons   NA 1277   #####   NA 174   Insecticide   Botanical   Laves of Eucalyptons   NA 1278   #####   NA 174   Insecticide   Botanical   Lingin   NA 1278   #####   NA 174   Insecticide   Botanical   Lilaicin   Lilaicin   118-34-3   67006   NA 573   N/A   Botanical   Eucalyptons   Botanical   Botanical   Lilaicin   118-34-3   67006   NA 573   N/A   Botanical   Botanical   Lilaicin   NA 644   NA 118   3685   N/A   Botanical   Botanical   Millet seed   NA 648   NA 118   3685   N/A   Botanical   Millet seed   NA 648   NA 118   3685   N/A   Botanical   Millet seed   NA 38   NA 65   3692   Bait   Botanical   Montok pepper   NA 851   NA 158   S012   Insecticide   Botanical   Millet seed   NA 38   NA 158   S012   Insecticide   Botanical   Millet seed   NA 38   NA 158   S012   Insecticide   Botanical   Millet seed   NA 38   NA 55   3692   Bait   Botanical   Montok pepper   NA 851   NA 158   S012   Insecticide   Botanical   Molecular   S0663-71-1   #####   NA 953   Plant Growth   Regulator	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Jasmolin II					330 2750	Chemical Class
Jasmolin II		4466-14-2	69011		Insecticide	Botanical
Juniper tar oil	Jasmolin II	1172-63-0	69012	NA 615	Insecticide	
Jumpents communis ext.   Astronomics   Ast		2231543	67203	NA 575	Insecticide	
Larkspur alkaloid		84603-69-0	67212			
Leaves of Bucalyptus			2202	NA 66	N/A	
Leave pulegium		NA 1277	#####	NA 174	Insecticide	<del> </del>
Lignin		NA 1278	#####	NA 174		
Lilacin						
Linalool   78-70-6					N/A	Botanical
Locust bean gum				NA 573		Botanical
Locust bean gum	Linalool	78-70-6	#####	2239		Botanical
Locust bean gum				1		
Locust bean gum						
Medicated feed	Locust bean gum	NA 738	NA 124	2647		
Millet seed   NA 38						
Mint Herbs   NA 1280						
Montok pepper						
Myrica cerifera, extract         84929-34-0         ######         NA 123         N/A         Botanical           N6-Benzyladenine, mixt, with Gibberellins A4 and A7         3663-71-1         ######         NA 953         Plant Growth Regulator         Botanical           NAA         86-87-3         56002         423         Plant Growth Regulator         Naphthalene acetic acid derivati, Botanical           NAA, ethyl ester         2122-70-5         56008         749         Plant Growth Regulator         Naphthalene acetic acid derivati, Botanical           Nicotine         54-11-5         56702         75         Insecticide         Botanical           Nicotine sulfate         65-30-5         56703         430         Insecticide         Botanical           NOA         120-23-0         55601         432         Plant Growth Regulator         Naphthalene acetic acid derivati, Botanical           NOA         120-23-0         55601         432         Plant Growth Regulator         Naphthalene acetic acid derivati, Botanical           Noanoica cid         112-05-0         #####         2739         Herbicide, Regulator         Botanical           Oats         NA 166         NA 26         3705         Bait         Botanical           Oil of cedarwood         800-27-9						
No-Benzyladenine, mixt. with Gibberellins A4 and A7						·
Regulator   NAA   86-87-3   56002   423   Plant Growth   Regulator   Regulator   Naphthalene acetic   acid derivati,   Botanical   Botanical   Botanical   Botanical   Botanical   Botanical   Naphthalene acetic   Botanical   Botanica						
NAA   86-87-3   56002   423   Plant Growth Regulator   Regulator	Gibberellins A4 and A7		<i> </i>	INA 933		Botanical
NAA, ethyl ester   2122-70-5   56008   749   Plant Growth Regulator   Naphthalene acetic acid derivati, Botanical	NAA .	86-87-3	56002	423		Naphthalene acetic
NAA, ethyl ester					Regulator	acid derivati.
Nicotine	2744					
Nicotine	NAA, ethyl ester	2122-70-5	56008	749		Naphthalene acetic
Nicotine   S4-11-5   56702   75   Insecticide   Botanical	•				Regulator	
Nicotine sulfate   So-30-5   So 703   430   Insecticide   Botanical	Nicotine	54.11.5	56702	75	*	
NOA   120-23-0   55601   432   Plant Growth Regulator   Naphthalene acetic acid derivati, Botanical   Botanical						
Nonanoic acid   112-05-0						
Nonanoic acid   112-05-0	.	120-25-0	33001	434		
Nonanoic acid   112-05-0	:				Regulator	
Oatmeal         NA 806         NA 149         3704         Bait         Botanical           Oats         NA 16         NA 26         3705         Bait         Botanical           Oil of cedarwood         8000-27-9         40505         1011         Insecticide, Botanical           Oil of hardwood         NA 675         67201         1639         Microbiocide         Botanical           Oil of pine tar         2227495         67002         2246         Insecticide, Botanical         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Papain         9000-28-6         #####         NA 880         N/A         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical	Nonanoic acid	112-05-0	#####	2739	Herbicide	
Oatmeal         NA 806         NA 149         3704         Bait         Botanical           Oats         NA 16         NA 26         3705         Bait         Botanical           Oil of cedarwood         8000-27-9         40505         1011         Insecticide, Fungicide         Botanical           Oil of hardwood         NA 675         67201         1639         Microbiocide         Botanical           Oil of pine tar         2227495         67002         2246         Insecticide, Microbiocide         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Papain         9000-28-6         #####         NA 880         N/A         Botanical           Paper         NA 598         NA 107         3718         N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td>Dotamical</td>						Dotamical
Oats         NA 16         NA 26         3705         Bait         Botanical           Oil of cedarwood         8000-27-9         40505         1011         Insecticide, Fungicide         Botanical           Oil of hardwood         NA 675         67201         1639         Microbiocide         Botanical           Oil of pine tar         2227495         67002         2246         Insecticide, Microbiocide         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Papain         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paprika         NA 383         NA 692         3719 <td>Oatmeal</td> <td>NA 806</td> <td>NA 149</td> <td>3704</td> <td></td> <td>Botanical</td>	Oatmeal	NA 806	NA 149	3704		Botanical
Oil of cedarwood         8000-27-9         40505         1011         Insecticide, Fungicide         Botanical           Oil of hardwood         NA 675         67201         1639         Microbiocide         Botanical           Oil of pine tar         2227495         67002         2246         Insecticide, Microbiocide         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Orions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paprika         NA 598         NA 107         3718         N/A         Botanical           Peanut butter         NA 373         NA 681         2735 <td></td> <td>NA 16</td> <td>NA 26</td> <td>3705</td> <td>Bait</td> <td></td>		NA 16	NA 26	3705	Bait	
Oil of hardwood         NA 675         67201         1639         Microbiocide         Botanical           Oil of pine tar         2227495         67002         2246         Insecticide, Microbiocide         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Paperant butter         NA 373         NA 681         2735         Bait<	Oil of cedarwood	8000-27-9	40505	1011		
Oil of pine tar         2227495         67002         2246         Insecticide, Microbiocide         Botanical           Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical					Fungicide	
Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paprika         NA 598         NA 107         3718         N/A         Botanical           Peanut butter         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical						Botanical
Oils, cedarwood, Texan         68990-83-0         11524         NA 118         Insecticide, Fungicide         Botanical           Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Paparin         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical	Oil of pine far	2227495	67002	2246		Botanical
Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect         Botanical           Paloja         9000-28-6         ######         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical	Oils cadaryood Toyon	69000 02 0	11504	771 440		
Onion extract         NA 1349         NA 192         NA 191         N/A         Botanical           Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         ######         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical	Ons, cedar wood, rexan	68990-83-0	11524	NA 118		Botanical
Onions         NA 807         NA 149         3711         N/A         Botanical           Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical	Onion extract	NA 1340	NA 102	NTA 101		
Orange pulp         NA 9         NA 13         3712         N/A         Botanical           p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         ######         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical						
p-Menthane-3,8-diol         42822-86-6         11550         5255         Insect Repellent         Botanical           Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical						
Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical						
Paloja         9000-28-6         #####         NA 880         N/A         Botanical           Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical		12022 00-0	11550	3233		Botanical
Papain         9001-73-4         NA 149         3717         Rodenticide         Botanical           Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical			#####	NA 880		Botanical
Paper         NA 598         NA 107         3718         N/A         Botanical           Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical		9001-73-4	NA 149			
Paprika         NA 383         NA 692         3719         N/A         Botanical           Peanut butter         NA 373         NA 681         2735         Bait         Botanical		NA 598	NA 107			
Peanut butter NA 373 NA 681 2735 Bait Botanical			NA 692			
December 1, 11			NA 681	2735		
The state of the s	Peanut shells	NA 375	NA 683	3723	N/A	Botanical

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	II m	
One mour starte	<u>OMB Rumber</u>	Code	Code	Use Type	Chemical Class
Peanuts	NA 374	NA 682	3533	Bait	Botanical
Peat moss	NA 809	NA 149	3724	N/A	Botanical
Pecan shell flour	NA 376	NA 684	3725	N/A	Botanical
Pectin	9000-69-5	NA 118	3726	N/A	Botanical
Pepper	NA 1348	NA 192	NA 191	Insecticide,	Botanical
				Deer Repellent	
Peppermint	NA 365	NA 668	2332	Insecticide,	Botanical
The state of the s				Fragrance	
Phenylethyl propionate	122-70-3	#####	2094	Fragrance,	Botanical
		i		Pheromone,	
				Insecticide,	
				Insect	
1.				Repellent, Dog and Cat	
•				Repellent	
Pine oil	2227495	67002	485	Insecticide,	Botanical
				Microbiocide	Dotamical
Pine soap	NA 1032	NA 127	1993	Insecticide,	Botanical
				Microbiocide	
Pine tar	8011-48-1	67204	1574	Insecticide,	Botanical
Pine tar oil	01005 50 4	67225		Microbiocide	
rine iai on	91995-59-4	67205	NA 576	Insecticide,	Botanical
Pinene	80-56-8	67004	2107	Microbiocide	
Pinene	1330-16-1	67004	2187	Insecticide	Botanical
Plant carbolineums	NA 1454	NA 215	NA 572 NA 215	Insecticide	Botanical
	1121 1454	NA 213	NA 215	Insecticide, Fungicide	Botanical
Plant extract (derived from	NA 917	#####	5453	Nematicide	Botanical
Quercus falcata, Opuntia				1.01.11110140	Dotatical
lindheimeri, Rhus aromatica,					
and Rhizophoria mangle					1
tissues) Polymerized pinene	NIA 200				
Potatoes	NA 399	NA 722	2043	Insecticide	Botanical
Poultry feed	NA 436	NA 786	3772	N/A	Botanical
Pyrethrin coils	NA 437 NA 1165	NA 787	3773	N/A	Botanical
Pyrethrin I	121-21-1	69004 NA 213	NA 164	Insecticide	Botanical
Pyrethrin II	121-29-9	5000	NA 213	Insecticide	Botanical
Pyrethrins	8003-34-7	69006	NA 610 510	Insecticide	Botanical
Pyrethrins, other related	NA 1108	NA 164	90510	Insecticide	Botanical
Pyrethrum narc	NA 1000	69000	1461	Insecticide Insecticide	Botanical
Pyrethrum powder other than	8003-34-7	69002	NA 164	Insecticide	Botanical
pyrethrins		05002	1177 104	msecucide	Botanical
Quassia	NA 450	NA 806	3778	Insecticide	Botanical
Quillaja	68990-67-0	NA 150	3779	N/A	Botanical
Raisins	NA 647	NA 119	3780	Bait	Botanical
Red dog flour	NA 452	NA 811	3782	N/A	Botanical
Red pepper	NA 107	70703	1094	Dog and Cat Repellent	Botanical
Red squill glycoside	507-60-8	70801	514	Rodenticide	Botanical
Repellants (by smell) of animal	NA 1373	NA 194	NA 193	Dog and Cat	Botanical
or plant origin				Repellent, Deer	~ommodi
Paris				Repellent	
Resins, oleo-, capsicum	8023-77-6		NA 665	Insecticide	Botanical
Rice	NA 812	NA 150	3783	N/A	Botanical

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		
Rice hulls	NA 813	NA 150	3784	N/A	Botanical
Rosemary	NA 453	#####	2331	N/A	Botanical
Rosin	9014-63-5	NA 812	3785	N/A	Botanical
Rosin oil	8002-16-2	40508	NA 341	N/A	Botanical
Rosin, partially dimerized	NA 454	NA 813	3786	N/A	Botanical
Rosin, partially hydrogenated	65997-06-0	NA 150	3787	N/A	Botanical
Rotenone	83-79-4	71003	518	Insecticide	Botanical
Rotenone, other related	NA 1109	NA 164	90518	Insecticide	Botanical
Rubber	2594048	NA 814	3788	N/A	Botanical
Ryanodine	NA 1305	71502	NA 175	Insecticide	Botanical
Ryanodine alkaloid	15662-33-6	71501	520	Insecticide	Botanical
Rye flour	NA 648	NA 119	3789	N/A	Botanical
Sabadilla alkaloids	2245180	2201	521	Insecticide	Botanical
Safrole	94-59-7	97901	3376	N/A	Botanical
Saponin	8047-15-2	97004	5033	N/A	Botanical
Sawdust	NA 1306	#####	1316	Adjuvant	Botanical
Scratch feed	NA 649	NA 119	3792	N/A	Botanical
Sea-algae extract	NA 1352	NA 192	NA 191	Plant Growth Regulator,	Botanical
				Adjuvant	
Seaweed	NA 814	NA 150	3793	N/A	Botanical
Sodium 2-nitrophenoxide	824-39-5	#####	5118	Plant Growth Regulator	Botanical
Sodium 4-nitrophenoxide	824-78-2	#####	5119	Plant Growth Regulator	Botanical
Sorghum, grain	NA 478	NA 882	3904	N/A	Botanical
Soy.flour	NA 482	NA 886	3809	N/A	Botanical
Soy protein	NA 483	NA 887	3810	N/A	Botanical
Soybean extract	NA 1353	NA 192	NA 191	N/A	Botanical
Soybean hulls	NA 481	NA 885	3807	N/A	Botanical
Soybean meal	NA 817	NA 150	3808	. N/A	Botanical
. Squalane	111-01-3	45503	2887	N/A	Botanical
Sugarbeet meal	NA 499	NA 910	3813	N/A	Botanical
Sunflower seeds	NA 650	NA 119	3815	Bait	Botanical
Synthetic vegetable gums	9004-64-2	NA 921	1835	Adjuvant	Botanical
Tall oil	8002-26-4	67211	2912	Adjuvant	Botanical
Tall oil acids	61790-12-3	NA 124	1389	Adjuvant	Botanical
Tar oils, from distillation of wood tar	8002-29-7	67202	NA 574	Insecticide, Herbicide	Botanical
Thuringiensin, calcium technical	23526-02-5	6404	2941	Insecticide	Botanical
Thyme	NA 527	######	2330	Insect Repellent,	Botanical
Tobacco	NIA 1011	) TA 050	2022	Insecticide	
Tobacco dust	NA 1011	NA 959	3932	Insecticide	Botanical
Trimethoxybenzene	8037-19-2 135-77-3	56704	NA 469	Insecticide	Botanical
Timemoxybenzene	133-77-3	40515	5064	Insecticide, Insect Repellent, Dog and Cat Repellent	Botanical
Tung oil	NA 547	NA 997	3821	N/A	Botanical
Verbenone	1196-01-6	#####	NA 108	Insect	Botanical
				Repellent	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Shownow I value	<u>Crib Ivamber</u>	Code	Code	Ose Type	Chemical Class
Walnut flour	NA 555	NA 101	3823	N/A	Botanica1
Walnut shells, ground	NA 556	NA 101	2986	N/A	Botanical
Wheat	NA 819	NA 151	3824	N/A	Botanical
Wheat flour	NA 674	NA 125	1577	N/A	Botanical
White pepper	NA 1311	NA 178	NA 177	Insecticide	Botanical Botanical
Wood powder	NA 565	NA 102	1463	N/A	Botanical
Wood rosin	2245031	67208	NA 579	N/A	Botanical
Wood tar	91722-33-7	67206	NA 577	Insecticide	Botanical
Xanthan gum	11138-66-2	NA 102	2272	Adjuvant	Botanical
Agrobacterium radiobacter var	NA 1435	NA 211	NA 210	Fungicide	Microbial
radiobacter			1 1 1 1 1 1	1 ungloido	IVIIOIODIAI
Agrobacterium radiobacter	NA 693	NA 127	1984	Fungicide	Microbial
Agrobacterium radiobacter (strain K84)	NA 925	#####	NA 167	Fungicide	Microbial
Agrobacterium radiobacter strain K1026	NA 921	6474	5477	Fungicide	Microbial
Agrobacterium vitis	NA 1536	NA 224	NA 224	Fungicide	Microbial
Agrotis segetum granulosis virus	NA 1391	NA 196	NA 195	Insecticide	Microbial
Ampelomyces quisqualis	NA 270	NA 525	2385	Fungicide	Microbial
Ampelomyces quisqualis	NA 1217	21007	NA 170	Fungicide	Microbial
isolate M-10				I ungioido	Microbiai
Anagrapha falcifera multi-	NA 862	#####	5089	Insecticide	Microbial
nuclear polyhedrosis virus (AFMNPV)					
Aschersonia aleyrodis	NA 1392	NA 196	NA 195	Insecticide	Microbial
Bacillus cereus strain UW85	NA 1218	######	NA 170	Plant Growth Regulator	Microbial
Bacillus cereus, strain BP01	NA 903	NA 172 ·	5183	Insecticide	Microbial
· Bacillus popilliae	NA 257	NA 509	2183	Fungicide	Microbial
Bacillus popilliae and B. lentimorbus	NA 1219	54501	NA 170	Fungicide	Microbial
. Bacillus sphaericus	143447-72-7	######	2274	Insecticide	Microbial
Bacillus sphaericus, serotype	143447-72-7	#####	2409	Insecticide	Microbial
H-5A5B, strain 2362			2.05	msconoide	Wilciobiai
Bacillus subtilis GBO3	NA 855	#####	3945	Fungicide	Microbial
Bacillus subtilis isolate B246	NA 1538	NA 225	NA 224	Fungicide	Microbial
Bacillus subtilis MBI 600	NA 864	#####	5120	Fungicide	Microbial
Bacillus subtilis var.	NA 1220	6480	NA 170	Fungicide,	Microbial
Amyloliquefaciens Strain				Plant Growth	
FZB24				Regulator	
Bacillus thuringiensis (berliner)	68038-71-1	6400	86	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Aizawai, GC- 91 protein	68038-71-1	6426	3843	Insecticide	Microbial
Bacillus thuringiensis	68038-71-1	6400	3856	Insecticide	) / i
(berliner), subsp. Aizawai, serotype H-7		0400	2620	Insecticide	Microbial
Bacillus thuringiensis (berliner), subsp. Israelensis,	68038-71-1	6401	3857	Insecticide	Microbial
serotype H-14					
Bacillus thuringiensis (berliner), subsp. Kurstaki strain SA-12	68038-71-1	6402	3970	Insecticide	Microbial
Bacillus thuringiensis	68038-71-1	6402	3858	Ingesticide	Missabist
	00030-71-1	U+10Z	2020	Insecticide	Microbial

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	31101,411001	Code	Code	<u>oso rypo</u>	Citemical Class
(berliner), subsp. Kurstaki,					
serotype 3a,3b					
Bacillus thuringiensis	68038-71-1	6424	3859	Insecticide	Microbial
(berliner), subsp. Kurstaki,					142101001111
strain EG2348			·		
Bacillus thuringiensis	68038-71-1	6423	3860	Insecticide	Microbial
(berliner), subsp. Kurstaki,	00030-71-1	0423	3600	msecucide	Microbiai
strain EG2371					<u> </u>
	60000 71 1	6400			
Bacillus thuringiensis	68038-71-1	6422	3861	Insecticide	Microbial
(berliner), subsp. Kurstaki,					
strain EG2424					
Bacillus thuringiensis	68038-71-1	6402	3862	Insecticide	Microbial
(berliner), subsp. Kurstaki,					
strain SA-11					
Bacillus thuringiensis	NA 1481	6400	3863	Insecticide	Microbial
(berliner), subsp. Morrisoni,				22200010100	WHOLOGIAL
serotype 8a8b					
Bacillus thuringiensis	68038-71-1	6400	3864	Insecticide	N.G 1 1
(berliner), subsp. San Diego	08036-71-1	0400	3004	msecucide	Microbial
Bacillus thuringiensis	60020 71 1	6404	2410	~	
	68038-71-1	6404	2410	Insecticide	Microbial
darstadiensis	45.55			~ <u>.</u>	
Bacillus thuringiensis sub.	68038-71-1	6448	5051	Insecticide	Microbial
Kurstaki strain EG7673			† I		
coleopteran active toxin					
Bacillus thuringiensis sub.	68038-71-1	6447	5049	Insecticide	Microbial
Kurstaki strain EG7673	i				
lepidopteran active toxin		İ			
Bacillus thuringiensis subsp.	NA 1224	6403	NA 170	Insecticide	Microbial
Aizawai		0.03	1111170	msconcide	Wiiciobiai
Bacillus thuringiensis subsp.	68038-71-1	6402	5004	Insecticide	Microbial
Kurstaki, genetically	00030-71-1	0402	3004	Hisecticide	Microbiai
engineered strain AGRO1 by					
			}		
Agrevo	60000 51 1				
Bacillus thuringiensis subsp.	68038-71-1	6402	5005	Insecticide	Microbial
Kurstaki, genetically		1			
engineered strain AGRO2 by					
Agrevo					
Bacillus thuringiensis subsp.	NA 1232	#####	NA 171	Insecticide	Microbial
San Diego					
Bacillus thuringiensis subsp.	68038-71-1	6405	5043	Insecticide	Microbial
Tenebrionis	<b></b>				1110100141
Bacillus thuringiensis subspec.	68038-71-1	NA 169	3972	Insecticide	Microbial
Tenebrionis delta endotoxin	00050-71-1	1177 107	3372	Hisconoide	Wiciobiai
Bacillus thuringiensis	NA 1234	6476	NA 171	Ingotisia	) A:1:1
subspecies Israelensis strain	1NA 1234	04/0	NA I/I	Insecticide	Microbial
EG2215					
	60000 5: 1	-	<del>[</del>		
Bacillus thuringiensis	68038-71-1	6401	4018	Insecticide	Microbial
subspecies Israelensis, strain					
IPS-78					
Bacillus thuringiensis	68038-71-1	6407	4024	Insecticide	Microbial
subspecies kurstaki strain BMP					
123					
Bacillus thuringiensis	68038-71-1	6402	5010	Insecticide	Microbial
subspecies Kurstaki strain HD-					14110100101
1, lepidopteran active toxin			1	i	
Bacillus thuringiensis	68038-71-1	6453	3988	Tungatia: 1-	Missabit
subspecies kurstaki, genetically	00050-/1-1	0433	3900	Insecticide	Microbial
cacepooles kurstaki, genetically					

engineered strain BG7841 lepidopteran active toxin Bacillus thuringiensis var. kurstaki delha endotoxin protein as produced by the Cry1A(c) gene and its controlling gequences Bacillus thuringiensis var. Kurstaki, senetically engineered strain BC7826 Lepidopteran active toxin Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain BC7826 Lepidopteran active toxin Neodprion sertifer nuclear polyhedrosis virus Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Na 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 213 NA 214 Nicrobial Nuclear polyhedrosis virus of Nuclear polyhedrosis virus of Nuclear polyhedrosis virus of Nuclear polyhedrosis virus of Nuclear polyhedrosis virus of Nuclear polyhedrosis virus of Na 1510 NA 222 NA 222 Insecticide Microbial Na 213 NA 213 NA Microbial Na 213 NA 213 NA Microbial Na 214 Insecticide Microbial Na 215 NA 214 Insecticide Microbial Na 216 NA 217 NA 218 NA 218 NA 218 NA 218 NA 219 NA 219 NA 219 NA 219 NA 211 NA 211 NA 215 NA 214 Insecticide Microbial Na 218 NA 219 NA 222 NA 222 Insecticide Microbial Na 219 NA 222 NA 222 Insecticide Microbial Na 210 NA 222 NA 222 Insecticide Microbial Na 211 NA 213 NA Microbial Na 212 NA 223 Insecticide Microbial Na 213 NA 213 NA 213 NA Microbial Na 214 NA 215 NA 216 NA 217 NA 216 NA 217 NA 216 NA 217 NA 216 NA 217 NA 216 NA 217 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 218 NA 219 N	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
engineered strain EG/7841 Bacillus thuringiensis var. Kurstaki delta endotoxin protein as produced by the Cry1A(c) gene and its controlling sequences Bacillus thuringiensis var. Kurstaki stain M-200 protein toxin Bacillus thuringiensis var. Kurstaki stain M-200 protein toxin Bacillus thuringiensis var. Kurstaki, genetically engineered strain EG/8441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain EG/7826 Lepidopteran active toxin Neodiprion sertifer nuclear polyhedrosis virus Nosema locustae spores Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of red-headed pine sawfly Nystain streotomyces nourses) (withdrawn: 23614-R  j.m.24) Paecilomyces fumororoseus apopka strain 97 Paecilomyces fumororoseus Bacillus thuringiensis var. Na 131 Na 131 Na 131 Na 131 Na 131 Na 133 Na 131 Na 133 Na 131 Na 133 Na 133 Na 133 Na 133 Na 134 Na 134 Na 134 Na 135 Na 134 Na 135 Na 135 Na 135 Na 136 Na 137 Na 137 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 138 Na 1439 Na 139 Na 138 Na 1439 Na 139 Na 138 Na 1439 Na 139 Na 130 Na 138 Na 1439 Na 139 Na 139 Na 139 Na 130 Na 139 Na 130 Na		<u>Ozao Ivaniboi</u>			Ose Type	Chemical Class
Recilitaturnigiensis var.   NA 1238   G445   NA 171   Insecticide   Microbial   sproduced by the Cytyl A(c) gene and its controlling   sequences   Sacillus thuringiensis var.   Kurstaki, stratin M-200 protein   toxin   Sacillus thuringiensis var.   G8038-71-1   G452   3978   Insecticide   Microbial   Mi	engineered strain EG7841		- 5000	Sodo	<del> </del>	
kurstaki delta endotoxin protein as produced by the CytJ (Ac) gene and its controlling sequences  Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var. NA 1450  NA 123 NA 195 NA 121 Insecticide Microbial Microbial Polyhedral inclusion bodies of NA 1289  Whitehola NA 1452  Whitehola NA 1451  NA 115 NA 115 NA 145  Bacillus thuringiensis var. NA 1460  NA 123 NA 213 NA 2						
Lurstaki delta endotoxin protein as produced by the Cytyl A(c) gene and its controlling sequences   Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441     Bacillus thur	Bacillus thuringiensis var.	NA 1238	6445	NA 171	Insecticide	Microbial
gene and its controlling sequences Bacillus thuringiensis var. Kurstaki strain M-200 protein toxin Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var. Sa024 Bacillus thuringiensis var	kurstaki delta endotoxin protein					, who to the
Sequences   Bacillus thuringiensis var.   68038-71-1   6452   3978   Insecticide   Microbial	as produced by the Cry1A(c)			ļ.		
Bacillus thuringiensis var.   G8038-71-1   G452   3978   Insecticide   Microbial	1					
Kurstaki strain M-200 protein toxin   Bacillus thuringiensis var.   Kurstaki, genetically engineered strain ECX 9441     Bacillus thuringiensis var.   68038-71-1   6402   3962   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Bacillus thuringiensis var.   68038-71-1   6459   5325   Insecticide   Microbial     Polyhedrosis virus of   7404-7						
Bacillus thuringiensis var.  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9421  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9421  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Bacillus thuringiensis var.  Kurstaki, genetically engineered strain ECX 9441  Rustaki, genetically engineered strain ECX 9441  Neustaki, genetically engineered strain ECX 9441  Neustaki, genetically engineered strain ECX 9441  Neustaki, genetically engineered strain ECX 9441  Neodiprion sertifer nuclear polyhedrosis virus of polyhedrosis virus of red-headed strain 97  Nuclear polyhedrosis virus of red-headed pine sawfly  Nystatin (streotomyces nourse) (withdrawn: 23614-R.  : pm24)  Paecilomyces funosoroseus apopka strain 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 97  Paecilomyces funosoroseus NA 833 NA 196 NA 195 Pungicide Microbial 97  Paecilomyces funosoroseus NA 1388 NA 196 NA 195 Pungicide Microbial 97  Polyhedral inclusion bodies of NA 593 ##### NA 175 Insecticide Microbial 97  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial 97  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial 97  Polyhedral inclusion bodies of Helicoverpa zea (com enavorm) Polyhedrosis virus of Helicoverpa zea (com enavorm) Polyhedrosis virus of Helicoverp		68038-71-1	6452	3978	Insecticide	Microbial
Bacillus thuringiensis var. Kurstaki, genetically engineered strain ECX 9441	_					
Kurstaki, genetically   G8038-71-1   G459   S325   Insecticide   Microbial						
engineered strain ECX 9441     Bacillus thuringiensis var.   Kurstaki, genetically engineered strain EG7826   Lepidopteran active toxin     Neodiprion sertifer muclear polyhedrosis virus     Nosema locustae spores   NA 20		68038-71-1	6402	3962	Insecticide	Microbial
Bacillus thuringiensis var.  Kurstaki, genetically engineered strain EG7826 Lepidopteran active toxin Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nuclear polyhedrosis virus Nosema locustae spores NA 20 ##### 2137 Insecticide Microbial Nuclear polyhedrosis virus Nosema locustae spores NA 1451 NA 215 NA 214 Insecticide Microbial Nuclear polyhedrosis virus of Helicoverpea zea Nuclear polyhedrosis virus of red-headed pine sawfly Nystatin (streotomyces noursei) (withdrawn : 23614-R: :pm24) Paecilomyces fumosoroseus apopka strain 97 Paecilomyces Lilacinus Strain 251 Penicillin G, potassium salt Penicipora gigantea NA 1462 NA 213 NA 213 Insecticide Microbial Penicipora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Fungicide Microbial Phytophthora palmivora, chlamydespores of Polyhedral inclusion bodies of NA 593 ##### 2009 Insecticide Microbial NA 1289 Polyhedral inclusion bodies of NA 593 ##### NA 175 Insecticide Microbial NA 1289 Polyhedral inclusion bodies of NA 593 ##### NA 175 Insecticide Microbial NA 1289 Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ###### NA 175 Insecticide Microbial NA 1290 ##### NA 175 Insecticide Microbial NA 1290 ###### NA 175 Insecticide Microbial						
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Lepidopteran active toxin   Neodiprion sertifer nuclear polyhedrosis virus   Nosema locustae spores   NA 20						
No. A coliprion sertifer nuclear polyhedrosis virus   Na. 1389   Na. 196   Na. 195   N/A   Microbial			!	-		
Nosema locustae spores Na 20   ************************************	Neodiprion sertifer nuclear	NA 1380	NA 196	NA 105	NT/A	) A ( 1 1
Nosema locustae spores   NA 20		1471 1507	14A 190	NA 193	IV/A	Microbial
Nuclear polyhedrosis virus   Na 1451		NA 20	#####	2137	Insecticide	Migrabial
Nuclear polyhedrosis virus of Helicoverpea zea  Nuclear polyhedrosis virus of Helicoverpea zea  Nuclear polyhedrosis virus of red-headed pine sawfly  Nystatin (streotomyces noursei) (withdrawn: 23614-R; pm24)  Paecilomyces (mnosoroseus apopka strain 97  Paecilomyces funosoroseus NA 831 ##### 3964 Insecticide Microbial 251  Penicillin G, potassium salt NA 666 NA 123 1283 NNA 213 Insecticide Microbial Peniciphora gigantea NA 1462 NA 217 NA 216 Fungicide Microbial Phytophthora palmivora, chlamydospores of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial NA 835 ##### 4028 Insecticide Microbial Polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)						
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noursei) (withdrawn: 23614-R : pm24)  Paecilomyces fumosoroseus apopka strain 97  Paecilomyces Lilacinus Strain 251  Penicillin G, potassium salt Peniophora gigantea NA 1462 NA 213 NA 213 NA 213 Insecticide Microbial Phlebiopsis gigantea NA 1462 NA 217 NA 216 Pungicide Microbial Phlebiopsis gigantea NA 1388 NA 196 NA 195 Prungicide Microbial Phytophthora palmivora, chlamydospores of Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of Sypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 NA 835  W#### NA 175 Insecticide Microbial Microbial  NA 1290  Microbial  NA 175 Insecticide Microbial  Microbial			- 1.2		mboonerde	WIICIOUIAI
Doursei   (withdrawn : 23614-R : pm24)   Paecilomyces funosoroseus apopka strain 97   Paecilomyces funosoroseus apopka strain 97   Paecilomyces Lilacinus Strain   NA 1439   NA 213   NA 213   Insecticide   Microbial		1400-61-9	#####	NA 115	N/A	Microbial
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Phytophthora palmivora, chlamydospores of  Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of make the polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289  Polyhedral inclusion bodies of NA 1290  N. sertifer  Polyhedral occlusion bodies of NA 835  Polyhedral occlusion bodies of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)						Microbial
Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial wirus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion inclusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)	Phlebiopsis gigantea					Microbial
Polyhedral inclusion bodies of Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289 ##### NA 175 Insecticide Microbial  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion in the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)	Phytophthora palmivora,	NA 860	#####	5078	Herbicide	Microbial
Douglas fir tussock moth nuclear polyhedrosis virus  Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral inclusion bodies of N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)	Delah delah	371 500				
Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1289  Polyhedral inclusion bodies of NA 1290  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral californica (alfalfa looper)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 593	#####	2009	Insecticide	Microbial
Polyhedral inclusion bodies of gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion to dies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion to dies (alfalfa looper)  Polyhedral occlusion to dies (alfalfa looper)  Polyhedral occlusion to dies (alfalfa looper)  Polyhedral occlusion to dies (alfalfa looper)  Polyhedral occlusion to dies (alfalfa looper)						
gypsy moth nucleopolyhedrosis virus  Polyhedral inclusion bodies of N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  NA 1290 ###### NA 175 Insecticide Microbial  Microbial  Microbial  Microbial  Microbial  NA 1292 ###################################		NA 1280	4444111	NIA 175	Y	
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Polyhedral inclusion bodies of NA 1290 ##### NA 175 Insecticide Microbial  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral inclusion bodies NA 1292 ###### NA 175 Insecticide Microbial  Microbial Microbial  NA 175 Insecticide Microbial  NA 1292 ##################################						
N. sertifer  Polyhedral occlusion bodies (OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion bodies (Autographa californica (alfalfa looper)		NA 1290		NA 175	Insecticido	Mignetical
(OB's) of the nuclear polyhedrosis virus of Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedral occlusion bodies  OBS of the nuclear Polyhedrosis virus of Autographa californica (alfalfa looper)		1411250	nnnna.	147.73	msecucide	iviicrobiai
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Helicoverpa zea (corn earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)				.020	mbeenede	Wilcional
earworm)  Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa looper)	polyhedrosis virus of					
Polyhedral occlusion bodies (OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)  Polyhedrosis virus of Autographa californica (alfalfa Representation of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)	Helicoverpa zea (corn			[	·	
(OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)						
(OBs) of the nuclear polyhedrosis virus of Autographa californica (alfalfa looper)		NA 1292	#####	NA 175	Insecticide	Microbial
Autographa californica (alfalfa looper)						
looper)	polyhedrosis virus of					
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Polynedral occlusion bodies NA 830 NA 153 4007 Insecticide Microbial			<u> </u>			
	rolynedral occlusion bodies	NA 830	NA 153	4007	Insecticide	Microbial

(OBs) of the nuclear polyhedrosis virus of Spodoptera exigua Polyhedrosis of the beet armyworm nuclear polyhedrosis virus of Spodoptera exigua Pseudomonas aureofaciens NA 1293 ###### NA 175 Insecticide Microbial Pseudomonas aureofaciens NA 1296 6473 NA 175 Fungicide Microbial Wisconsin Tx-1 Pseudomonas cepacia type NA 449 6419 3926 Fungicide, Microbial Pseudomonas cepacia type Wisconsin NA 1489 6478 NA 220 Fungicide Microbial Strain G3-28 Pseudomonas chlororaphis NA 1489 6478 NA 220 Fungicide Microbial Strain S3-28 Pseudomonas fluorescens EG- NA 858 6440 5045 Fungicide Microbial Microbial 1053 Pseudomonas fluorescens NA 867 6439 3949 Fungicide Microbial Microbial 1629RS Pseudomonas fluorescens NA 1020 6438 2842 Fungicide Microbial Microbial Strain NCIB 12089 Pseudomonas syringae strain AGS31 Psedomonas syringae strain NCIB 12089 Pseudomonas syringae strain NA 897 NA 171 3950 N/A Microbial G852-11 Pseudomonas syringae strain NA 836 6451 3967 Fungicide Microbial SEC-11 Pseudomonas syringae, strain 68602-93-7 6411 2824 Fungicide Microbial SEC-11 Pseudomonas syringae, strain (68583-32-4 6441 3960 Fungicide Microbial G8Covenite) Lagraeira (74 27 S) Pseudomonas syringae, strain ASS1 (68002-93-7 6411 2824 Fungicide Microbial G8Covenite) Lagraeira (ATCC 440199) QST 713 strain of dried Bacilius subrilis NA 1441 NA 214 NA 213 Rodent Microbial Rabbit Subrilis NA 1441 NA 214 NA 213 Rodent Microbial Rhizobium leguminosarum biovar phaseoli NA 1556 NA 226 NA 226 Insecticide Microbial Spinosyn D 313929-63-0 ##### 3933 Insecticide Microbial Microbial Spinosyn D 313929-63-0 ##### NA 397 Fungicide Microbial Microbial Spinosyn D 313929-63-0 ##### NA 397 Fungicide Microbial Microbial Spores of Glicoladium NA 1453 NA 221 NA 221 Insecticide Microbial Spores of Glicoladium NA 1453 NA 215 NA 215 Fungicide Microbial Microbial Spores of Glicoladium NA 1451 NA 214 NA 214 Fungicide Microbial Spores of Glicoladium NA 1451 NA 215 NA 215 Fungicide Microbial Microbial Spores of Glicoladium NA 1451 NA 215 NA 215 Fungicide Microbial Microbial Sp	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
polyhedrosis virus of Spodoptera exigua Polyhedrosis virus of the beet army own nuclear polyhedrosis virus on the polyhedrosis virus of the beet army own nuclear polyhedrosis virus of the						Chommon Class
the beet armyworm nuclear polybedrosis virus  Pseudomonas aureofaciens strain Tx-1  Pseudomonas capacia type NA 449 6419 3926 Fungicide, Microbial Wisconstin  Pseudomonas chlororaphis NA 902 NA 172 5182 Fungicide Microbial Pseudomonas chlororaphis NA 902 NA 172 5182 Fungicide Microbial Strain 63-28  Pseudomonas chlororaphis NA 902 NA 172 5182 Fungicide Microbial Strain 63-28  Pseudomonas fluorescens EG- NA 858 6440 5045 Fungicide Microbial Pseudomonas fluorescens NA 867 6439 3949 Fungicide Microbial Pseudomonas fluorescens NA 1020 6438 2842 Fungicide Microbial Pseudomonas fluorescens NA 1020 6438 2842 Fungicide Microbial A506  Pseudomonas fluorescens NA 868 6420 3968 Fungicide Microbial Pseudomonas syringae strain NGIB 12089  Pseudomonas syringae strain NA 886 6420 3968 Fungicide Microbial Strain PS31  Pseudomonas syringae strain NA 836 6451 3967 Fungicide Microbial ESC-11  Pseudomonas syringae strain NA 836 6451 3967 Fungicide Microbial ESC-11  Pseudomonas syringae, strain 68502-93-7 6411 2824 Fungicide Microbial ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  (ATCC #40199)  (ATCC #40199)  (ATCC #40199)  (ATCC #40199)  (ATCC #40199)  (ATCS #31 strain of fried Bacillus subtilis Rabbit Calicivirus NA 1441 NA 214 NA 213 Rodent Repellent Spinosad 131929-63-0 ##### NA 907 Insecticide Microbial Spinosad 131929-63-0 ##### NA 907 Insecticide Microbial Spinosad 131929-63-0 ##### NA 907 Insecticide Microbial Spinosad 131929-63-0 ##### NA 907 Insecticide Microbial Spores of Bacillus popiliae NA 1453 NA 215 NA 215 Fungicide Microbial Streptomyces griscoviridis NA 1451 NA 214 NA 214 Insecticide Microbial Spores of Glicoladium NA 1453 NA 215 NA 215 Fungicide Microbial Streptomyces griscoviridis NA 1453 NA 215 NA 215 Fungicide Microbial Microbial Streptomyces griscoviridis NA 1453 NA 215 NA 215 Fungicide Microbial Summerfruit tortrix moth granulosis virus NA 1491 NA 221 Insecticide Microbial Tribodemma harzianum 67892-34-6 ###### NA 106 Funcicide Microbial Microbial Tribodemma harzianum 67892-34-6 #######	polyhedrosis virus of Spodoptera exigua					
Pseudomonas cepacia type   NA 449   6419   3926   Fungicide   Microbial	the beet armyworm nuclear polyhedrosis virus				Insecticide	Microbial
Wisconsin   Na 902   Na 172   5182   Fungicide   Microbial	strain Tx-1				Fungicide	Microbial
Pseudomonas chlororaphis strain 63-28	Wisconsin					Microbial
Strain 63-28	Pseudomonas chlororaphis			5182	Fungicide	Microbial
Pseudomonas fluorescens	strain 63-28			NA 220	Fungicide	Microbial
Pseudomonas fluorescens	1053			5045	Fungicide	Microbial
A506   Pseudomonas fluorescens strain NCIB 12089   Pseudomonas syringae strain AGS31 Psedomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae, strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS33-1-E Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS31   Pseudomonas syringae strain PAS32   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain PAS33   Pseudomonas syringae strain	1629RS	NA 867	6439	3949	Fungicide	Microbial
Strain NCIB 12089   NA 897   NA 171   3950   N/A   Microbial	A506		6438	2842	Fungicide	Microbial
AGS31 Psedomonas syringae strain PS31  Pseudomonas syringae strain ESC-11  Pseudomonas syringae, strain ESC-11  Pseudomonas syringae, strain FSC-10  Pseudomonas syringae, strain ESC-10  Pseudomonas syringae, strain ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Rhizobium meliloti  Rhizobium meliloti  NA 1558  NA 226  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  NA 1557  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 1558  NA 227  NA 226  Insecticide  Microbial  Microbial  Spinosyn D  131929-63-0  #####  NA 907  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  NA 1446  NA 214  NA 214  Fungicide  Microbial  Microbial  Microbial  Microbial  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium  Catenulatum  NA 1453  NA 215  NA 221  NA 221  NA 221  NA 221  NA 221  NA 221  Insecticide  Microbial  Microbial  Microbial  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 106  Fungicide  Microbial  Microbial	strain NCIB 12089	NA 868	6420	3968	Fungicide	Microbial
Pseudomonas syringae, strain 742 RS  Pseudomonas syringae, strain ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1556  NA 226  NA 226  NA 226  NA 226  Insecticide  Microbial  Rhizobium meliloti  NA 1557  NA 226  NA 226  Insecticide  Microbial  Spinosad  131929-60-7  #####  Spinosyn D  131929-63-0  NA 1446  NA 214  NA 214  Fungicide  Microbial  Microbial  Spores of Bacillus popilliae  NA 1310  Streptomyces griseoviridis Strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 196  NA insecticide  Microbial	AGS31 Psedomonas syringae strain PS31		NA 171	3950	N/A	Microbial
Pseudomonas syringae, strain ESC-10  Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium neliloti  NA 1556  NA 226  NA 226  NA 226  NA 226  Insecticide  Microbial  Ricrobial  Ricrobial  Ricrobial  Ricrobial  Ricrobial  Rhizobium leguminosarum viciaeTJ 9  Rhizobium neliloti  NA 1558  NA 227  NA 226  Insecticide  Microbial  Spinosyn D  131929-60-7  #####  NA 907  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61  Summerfuit tortrix moth granulosis virus  NA 1387  NA 196  NA 196  Fungicide  Microbial	ESC-11	NA 836	6451	3967	Fungicide	Microbial
Puccinia canaliculata (Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Spinosyn D  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 216  Fungicide  Microbial	742 RS	68602-93-7	6411	2824	Fungicide	Microbial ,
(Schweinitz) Lagerheim (ATCC #40199)  QST 713 strain of dried Bacillus subtilis  Rabbit Calicivirus  NA 1441  NA 214  NA 213  Rodent Repellent  Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1557  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  NA 1557  NA 226  NA 226  Insecticide  Microbial  Spinosad  Spinosad  Spinosyn D  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium Catemulatum  Streptomyces griseoviridis Strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 106  Fungicide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial	ESC-10	68583-32-4	6441	3960	Fungicide	Microbial
Rabit Calicivirus   NA 1441   NA 214   NA 213   Rodent Repellent	(Schweinitz) Lagerheim (ATCC #40199)		######	5121	Herbicide	Microbial
Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  Spinosad  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1556  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 227  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 214  NA 214  NA 214  Fungicide  Microbial	Bacillus subtilis		6479	5447	Fungicide	Microbial
Rhizobium leguminosarum biovar phaseoli  Rhizobium leguminosarum viciaeTJ 9  Rhizobium meliloti  NA 1557  NA 226  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  NA 1558  NA 227  NA 226  Insecticide  Microbial  Microbial  Spinosad  Spinosad  Spinosyn D  Spinosyn D  Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  Spores of Gliocladium Catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 226  NA 226  Insecticide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial			NA 214	NA 213		Microbial
Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium meliloti Rhizobium spinosad Rhizobiad Riscoticide Rhizobial Riscoticide Rhizobial Riscoticide Rhizobial Riscoticide Ricobial Ricrobial	biovar phaseoli		NA 226	NA 226		Microbial
Spinosad 131929-60-7 ##### 3983 Insecticide Microbial Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium NA 1453 NA 215 NA 215 Fungicide Microbial Streptomyces griseoviridis strain K61 NA 875 ##### 3937 Fungicide Microbial Summerfruit tortrix moth granulosis virus NA 1491 NA 221 NA 221 Insecticide Microbial Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ###### NA 106 Fungicide Microbial	viciaeTJ 9	NA 1557	NA 226	NA 226	Insecticide	Microbial
Spinosad 131929-60-7 ##### 3983 Insecticide Microbial Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial				NA 226	Insecticide	Microbial
Spinosyn D 131929-63-0 ##### NA 907 Insecticide Microbial Spores and mycelium spores of Phlebiopsis gigantea Spores of Bacillus popilliae NA 1310 54502 NA 176 Fungicide Microbial Spores of Gliocladium catenulatum Streptomyces griseoviridis strain K61 Summerfruit tortrix moth granulosis virus Tomato mosaic virus NA 1387 NA 196 NA 195 N/A Microbial Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial Microbial			#####		Insecticide	
Spores and mycelium spores of Phlebiopsis gigantea  Spores of Bacillus popilliae  NA 1310  Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 214  NA 214  Fungicide  Microbial			#####	NA 907		
Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 215  NA 215  NA 215  Fungicide  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Microbial  Tichoderma harzianum  67892-34-6  ######  NA 106  Fungicide  Microbial	Phlebiopsis gigantea	NA 1446	NA 214	NA 214		
Spores of Gliocladium catenulatum  Streptomyces griseoviridis strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1453  NA 215  NA 215  Fungicide  Microbial  Microbial  NA 221  NA 221  NA 221  NA 221  NA 221  NA 221  NA 196  NA 195  NA Microbial  Trichoderma harzianum  NA 1387  NA 196  Williel  NA 106  Fungicide  Microbial  Microbial				NA 176	Fungicide	Microbial
Strain K61  Summerfruit tortrix moth granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  NA 195  NA Microbial  Trichoderma harzianum  67892-34-6  ######  NA 106  Fungicide  Microbial  Microbial	catenulatum	NA 1453	NA 215			
granulosis virus  Tomato mosaic virus  NA 1387  NA 196  NA 195  N/A  Microbial  Trichoderma harzianum  67892-34-6  ######  NA 106  Fungicide  Microbial	strain K61	NA 875	#####	3937	Fungicide	Microbial
Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial	granulosis virus	NA 1491	NA 221	NA 221	Insecticide	Microbial
Trichoderma harzianum 67892-34-6 ##### NA 106 Fungicide Microbial		NA 1387	NA 196	NA 195	N/A	Microbial
						*

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Trichoderma harzianum rifai	67892-31-3	<u>Code</u> #####	<u>Code</u> 3977	Fungicide	Microbial
strain KRL-AG2					
Trichoderma harzianum Rifai strain T-39	67892-31-3	#####	4016	Fungicide	Microbial
Trichoderma polysporum (ATCC 20475)	67892-31-3	######	NA 176	Fungicide	Microbial
Trichoderma polysporum rifai	NA 1067	NA 159	5101	N/A	Microbial
Verticillium dahliae Kleb.	NA 1386	NA 196	NA 195	Fungicide	Microbial
Verticillium lecanii	67892-35-7	6421	NA 96	Insecticide	Microbial
Xanthomonas campestris pv. Poannua	NA 910	NA 174	5317	Herbicide	Microbial
Yeast ·	NA 652	NA 119	3827	N/A	Microbial
Allyl isothiocyanate	57-06-7	4901	1010	Insecticide	Oil - essential
Almond, bitter	8013-76-1	NA 546	3576	N/A	Oil - essential
Aloe vera oil	NA 918	NA 175	5454	N/A	Oil - essential
Blend of oils: of lemongrass, of citronella, of orange, of bergamot; geraniol, ionone alpha, methyl salicylate and allylisothioc		NA 221	NA 221	Insecticide	Oil - essential
Camphor	76-22-2	15602	102	Insecticide, Fungicide, Microbiocide	Oil - essential
Camphor oil	8008-51-3	15601	NA 142	Insecticide, Fungicide, Microbiocide	Oil - essential
Canadian balsam	8007-47-4	67209	NA 580	Insecticide, Fungicide	Oil - essential
Cedar leaf oil	8007-20-3	40507	NA 340	Insecticide, Fungicide	Oil - essential
Cinnamon oil	NA 922	NA 175	5577	N/A	Oil - essential
Clove oil	8000-34-8	#####	5018	N/A	Oil - essential
Essential oils	8014-17-3	NA 121	873	Insecticide	Oil - essential
Eucalyptus oil	8000-48-4	40503	281	Insect Repellent,	Oil - essential
·				Insecticide	
Fir needle oil	8021-28-1	#####	NA 110	N/A	Oil - essential
Lavandin oil	8022-15-9	40500	5017	Insect Repellent, Insecticide, Dog and Cat Repellent	Oil - essential
Lemon peel oil	8020-19-7	40518	NA 346	N/A	Oil - essential
Lime Oil	8008-26-2	NA 213	NA 212	Insecticide	Oil - essential
Limonene	138-86-3	79701	979	Insect Repellent, Insecticide, Dog and Cat Repellent	Oil - essential
Limonene	138-86-3	79701	2531	Insecticide	Oil - essential
Mixture citronella oil, citrus oil, eucalyptus oil, pine oil	NA 1493	NA 221	NA 221	Insect Repellent	Oil - essential
Oil of ambergis	8038-65-1	#####	NA 105	N/A	Oil - essential
Oil of anise	8007-70-3	4301	1051	Insect Repellent, Insecticide,	Oil - essential

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Charrie 1 CT
<u>Gitelingar ryang</u>	Or 10 I Validor	Code	Code	<u>Use Type</u>	Chemical Class
			Code	Dog and Cat	
:				Repellent	
Oil of bay	8006-78-8	40520	2072	N/A	0.1
Oil of bergamot	8007-75-8	#####	1517		Oil - essential
On or bergamor	8007-73-8	<del>1111111111111111111111111111111111111</del>	1317	Insect	Oil - essential
		,	1	Repellent,	
			1	Insecticide,	
			ł	Dog and Cat	
Oil of black pepper	NA 1521	NA 223	NA 223	Repellent Insecticide	0.11
Oil of cajeput	8008-98-8	40504	NA 339	N/A	Oil - essential
Oil of camphor sassafrassy	8006-80-2	15603			Oil - essential
Oil of chamomile (Matricaria	8002-66-2		897	N/A	Oil - essential
chamomilla and/or. Anthemidis	8002-00-2	######	NA 104	Insecticide	Oil - essential
nobilis)		1	ļ		
Oil of chenopodium	8006-99-3	NIA 10	1524	27/1	
Oil of citronella	8000-29-1	NA 18	1524	N/A	Oil - essential
On of childhena	8000-29-1	21901	143	Insect	Oil - essential
				Repellent, Dog	
				and Cat	
Oil of citrus	NA 13	NA 19	1931	Repellent Insect	0.1
On or citus	14V 12	INA 19	1931		Oil - essential
Oil of geranium	8000-46-2	#####	1887	Repellent	0"
Oil of jasmine	8022-96-6			Fragrance	Oil - essential
Oil of jojoba	61789-91-1	40501	5063	Insecticide	Oil - essential
On or jojoba	01/89-91-1	67200	3833	Insecticide,	Oil - essential
				Insect	
				Repellent,	
•				Fungicide, Dog	
				and Cat	
Oil of lavender	8000-28-0	#####	1888	Repellent Insecticide	
Oil of lemon	8008-56-8				Oil - essential
Oil of lemongrass	5392-40-5	NA 120 40510	440	N/A	Oil - essential
On or temongrass	3392-40-3	40310	1009	Insecticide,	Oil - essential
Oil of lemongrass	2229107	40500	1126	Pheromone	
On or ichioligrass	2229107	40502	1136	Insect	Oil - essential
<u>,</u>				Repellent,	
Oil of mustard	57-06-7	4901	1153	Insecticide	07
On or musialu	37-00-7	4301	1133	Insect	Oil - essential
				Repellent, Insecticide,	
		•		Dog and Cat	
		:		Repellent	
Oil of orange	8008-57-9	40517	441	Insect	Oil - essential
		10317	-T-F X	Repellent,	On - essennai
				Insecticide,	
				Dog and Cat	
				Repellent	
Oil of pennyroyal	8007-44-1	40509	1325	Insecticide	Oil - essential
Oil of peppermint	8006-90-4	NA 669	2058	Insecticide	Oil - essential
Oil of rosemary	8000-25-7	#####	5450	Insecticide	Oil - essential
Oil of rue	8014-29-7	40519	2206	N/A	Oil - essential
Oil of spearmint	8008-79-5	#####	1508	N/A N/A	
Oil of thyme	8007-46-3	#####	NA 159		Oil - essential
Oil of wintergreen	119-36-8	76601		N/A	Oil - essential
Oils, tea-tree			746	Insecticide	Oil - essential
Orange pith oil	68647-73-4 NA 1461	28853	NA 211	N/A	Oil - essential
Crange bim on	NA 1461	NA 217	NA 216	Insecticide	Oil - essential

Chemical Name	CAS Number	U.S. EPA PC	CA CI	77 77	
<u>Smorrhout Atumo</u> .	CAS IVIIIDEI	Code	CA Chem Code	Use Type	Chemical Class
Perfume, cherry fragrance oil	NA 751	NA 136	2743	Fragrance	Oil - essential
#493					On - essential
Phytelene of marigold	70892-20-5	<del>}       </del>	NA 976	N/A	Oil - essential
Phytelene of marigold	84776-23-8	#####	NA 977	N/A	Oil - essential
Tansy, sage and lavender	NA 1452	NA 215	NA 214	Insecticide	Oil - essential
extracts					
Vanillin	121-33-5	######	5149	N/A	Oil - essential
Canola oil	120962-03-0	11332	5332	Insecticide,	Oil - vegetable
Castor oil	8001-79-4	21.600		Adjuvant	
Castor on	8001-79-4	31608	1013	Rodenticide,	Oil - vegetable
				Insecticide,	
				Insect	
Coconut oil	8001-31-8	#####	NA 124	Repellent N/A	0:1 11
Coconut oil monoethanolamine	68140-00-1	69179	1361	Adjuvant,	Oil - vegetable
		031,3	1301	Soap/Surfactant	Oil - vegetable
Corn oil	8001-30-7	NA 117	3626	N/A	Oil - vegetable
Cottonseed oil	8001-29-4	31602	1015	Insecticide	Oil - vegetable
Emulsifiable methylated	NA 907	NA 173 .	5224	Insecticide,	Oil - vegetable
vegetable oil	,			Adjuvant	On - vegetable
Fir needle oil, siberian	8021-29-2	NA 236	2570	N/A	Oil - vegetable
Hydrogenated castor oil	8001-78-3	31604	3830	Bird Repellent	Oil - vegetable
Hydrogenated soybean oil	8016-70-4	NA 186	3670	N/A	Oil - vegetable
Hydrogenated vegetable oils	NA 881	NA 169	5146	N/A	Oil - vegetable
Linseed oil with driers	NA 61	NA 116	2645	N/A	Oil - vegetable
Linseed oil, boiled	68553-15-1	NA 115	2644	N/A	Oil - vegetable
Methyl soyate	68919-53-9	NA 146	3519	Adjuvant	Oil - vegetable
Oil of linseed	8001-26-1	31603	2248	N/A	Oil - vegetable
Olive oil	8001-25-0	31610	3710	N/A	Oil - vegetable
Palm oil Peanut oil	NA 749	NA 136	2731	N/A	Oil - vegetable
Plant oils (including rape seed	2227315	NA 118	3722	N/A	Oil - vegetable
oil)	NA 1351	NA 192	NA 191	Insecticide	Oil - vegetable
Rapeseed oil	8002-13-9	· NIA 220	774 010		
Safflower oil	8001-23-8	NA 220 NA 124	NA 219	Insecticide	Oil - vegetable
Sesame oil	8008-74-0	72401	1510	N/A	Oil - vegetable
Soybean oil	8001-22-7	31605	1221 2335	N/A	Oil - vegetable
	0001-22-7	31003	2333	Insecticide, Adjuvant	Oil - vegetable
Vegetable oil	8008-89-7	NA 111	1231	Insecticide	Oil monthly
Vegetable oil modified	NA 552	NA 100	2981	N/A	Oil - vegetable Oil - vegetable
phenolic resin			2501	IVA	On - vegetable
Vegetable wax	8001-39-6	99501	1441	N/A	Oil - vegetable
Weed oil	NA 558	NA 101	1694	N/A	Oil - vegetable
Wheat germ oil	NA 559	NA 101	2988	N/A	Oil - vegetable
(1R-exo)-Brevicomin	20290-99-7	#####	NA 106	Pheromone	Pheromone
(4E-7Z)-4,7-Tridecadien-1-yl-	NA 1428	NA 199	NA 198	Pheromone	Pheromone
acetate					
(4Z-9Z)-7,9-Dodecadien-1-ol	NA 1412	NA 198	NA 197	Pheromone	Pheromone
(E)- 5-decen-1-ol	56578-18-8	78038	5315	Pheromone	Pheromone
(E) 11 Tetrade and acetate	35153-09-4	NA 187	NA 186	Pheromone	Pheromone
(E)-11-Tetradecenyl acetate	33189-72-9	#####	5022	Pheromone	Pheromone
(E)-2,6-dimethyl-2,6- octadienal	141-27-5	NA 21	3307	Pheromone	Pheromone
(E)-4-tridecen-1-yl-acetate	72269-48-8	#####	2199	Pheromone	Pheromone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	II. Tour	G : 10
	GILDINGHOOD	Code	Code	Use Type	Chemical Class
(E)-5-Decenol	56578-18-8	78038	3974	Pheromone	Pheromone
(E)-5-Decenyl acetate	38421-90-8	#####	3975	Pheromone	Pheromone
(E)-6-dodecenyl acetate	29868-16-4	#####	NA 958	Pheromone	Pheromone
(E)-9-decen-1-ol	56578-18-8	78038	5071	Pheromone	Pheromone
(E)-9-dodecen-1-ol, acetate	35148-19-7	#####	2141	Pheromone	Pheromone
(E)-9-Tricosene	35857-62-6	NA 200	NA 199	Pheromone	Pheromone
(E)7-(Z)9-Dodecadienyl	NA 1413	NA 198	NA 197	Pheromone	Pheromone
acetate				1 HOLOMOHO	. I heromone
(E,Z)-3,13-octadecadien-1-ol acetate	53120-26-6	#####	NA 955	Pheromone	Pheromone
(E/Z)-8-Dodecenyl acetate	NA 1415	NA 198	NA 197	Pheromone	
(R,Z)-5-(1-decenyl) dihydro-2-	64726-91-6	#####	2096	Pheromone	Pheromone
(3H)-furanone	0 1/20 11 0	""""	2090	Fueromone	Pheromone
(Z)-(3,3-	26532-24-1	#####	5081	· Pheromone	Dhamana
dimethylcyclohexylidene)aceta	•		3001	· I heromone	Pheromone
ldehyde					
(Z)-11-hexadecen-1-ol	56683-54-6	#####	NA 971	Pheromone	Pheromone
(Z)-11-Hexadecen-1-ol	56683-54-6	NA 193	NA 192	Pheromone	Pheromone
(Z)-11-hexadecenal	53939-28-9	#####	2126	Pheromone	Pheromone
(Z)-11-hexadecenyl acetate	60037-58-3	#####	NA 111	Pheromone	Pheromone
(Z)-11-Tetradecen-1-yl-acetate	20711-10-8	NA 199	NA 199	Pheromone	Pheromone
(Z)-11-Tetradecenyl acetate	20711-10-8	· #####	5023	Pheromone	Pheromone
(Z)-13-Octadecanol	NA 1423	NA 199	NA 198	Pheromone	Pheromone
(Z)-13-Octadecenal	58594-45-9	#####	NA 111	Pheromone	Pheromone
(Z)-13-Octadecenyl acetate	34010-21-4	#####	5316	Pheromone	Pheromone
(Z)-2-(3,3-dimethyl cyclo	26532-23-0	#####	5079	Pheromone	Pheromone
hexylidene)ethanol				, 1 moromone	1 Heromone
(Z)-3-Methyl-6-isopropenyl9- decen-1-yl acetate	NA 1420	NA 198	NA 198	Pheromone	Pheromone
(Z)-3-Methyl-6-isopropenyl-	NA 1419	NA 198	NA 198	DL	
3,4-decadien-1-yl	1417	1VA 190	NA 198	Pheromone	Pheromone
(Z)-4-tridecen-1-yl-acetate	65954-19-0	#####	2200	Pheromone	Pheromone
(Z)-5-Decenyl acetate	67446-07-5	NA 198	NA 197	Pheromone	Pheromone
(Z)-5-Dodecen-1-yl acetate	16676-96-3	. NA 187	NA 186	Pheromone	Pheromone
(Z)-6-dodecenyl acetate	16974-12-2	#####	NA 957	Pheromone	Pheromone
(Z)-6-Heneicosane-11-one	54844-65-4	#####	NA 110	Pheromone	Pheromone
(Z)-7-hexadecenal	56797-40-1	#####	NA 972	Pheromone	Pheromone
(Z)-7-Tetradecanol	NA 1427	NA 199	NA 198	Pheromone	Pheromone
(Z)-7-Tetradecenal	65128-96-3	NA 187	NA 186	Pheromone	Pheromone
(Z)-9-dodecenyl acetate	16974-11-1	#####	2142	Pheromone	Pheromone
(Z)-9-hexadecenal	56219-04-6	#####	NA 973	Pheromone	Pheromone
(Z)-9-tetradecen-1-ol	35153-15-2	#####	5618	Pheromone	Pheromone
(Z)-9-tetradecenal	53939-27-8	#####	2209	Pheromone	Pheromone
(Z)-9-Tetradecenyl acetate	16725-53-4	NA 187	NA 186	Pheromone	Pheromone
(Z)-9-Tricosene	27519-02-4	#####	NA 883	Pheromone	Pheromone
(Z,E) 7,11-hexadecadien-1-ol	NA 1144	NA 168	91997	Pheromone	Pheromone
acetate, other related					* WOLOTHOUG
(Z,E)-7,11-hexadecadien-1-yl	51607-94-4	#####	1997	Pheromone	Pheromone
acetate					
(Z,E)-7,11-hexadecadien-1-yl	53042-79-8	#####	NA 933	Pheromone	Pheromone
acetate (7 F) 9 10 dedecadional	374.15				
(Z,E)-8,10-dodecadienyl acetate	NA 1561	NA 227	NA 227	Pheromone	Pheromone
(Z,E)-9,11-Tetradecadien-1-yl	50767-79-8	NA 199	NA 198	Pheromone	Pheromone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	. Sec xype	Chemical Class
acetate					
(Z,E)-9,12-tetradecadienyl acetate	31654-77-0	######	5617	Pheromone	Pheromone
(Z,Z) 7,11-hexadecadien-1-ol acetate, other related	NA 1145	NA 168	91998	Pheromone	Pheromone
(Z,Z) Octadienyl acetate	NA 1422	NA 199	NA 198	Pheromone	Pheromone
(Z,Z)-11,13-hexadecadienal	71317-73-2	711	5314	Pheromone	Pheromone
(Z,Z)-3,13-octadecadien-1-ol acetate	53120-27-7	######	NA 954	Pheromone	Pheromone
(Z,Z)-7,11-hexadecadien-1-yl acetate	52207-99-5	######	1998	Pheromone	Pheromone
(Z,Z)-7,11-Hexadecadienyl acetate	52207-99-5	NA 198	NA 197	Pheromone	Pheromone
1,7-Dioxaspiro-5,5-undecane	180-84-7	NA 186	NA 186	: Pheromone	Pheromone
1-Methylbutyl decanoate	55195-26-1	#####	NA 100	Pheromone	Pheromone
1-Octen-3-01	3391-86-4	69037	4029	Pheromone,	Pheromone
	·	:		Fragrance, Insect Repellent, Dog and Cat Repellent	
11-(E)-Tetradecen-1-ol	35153-18-5	#####	5108.	Pheromone	Pheromone
11-(Z)-Tetradecen-1-ol	34010-15-6	#####	NA 109	Pheromone	Pheromone
2-cyclopenten-1-one, 2-	80-71-7	4049	NA 68	Pheromone,	Pheromone
hydroxy-3-methyl-				Fragrance	
2-methyl-7(R),8(S)-epoxy octadecane	29804-22-6	###### . 	2165	Pheromone	Pheromone
3(S)-Methyl-6-isopropenyl-9- dodecadien-1yl acetate	NA 1535	NA 224	NA 224	Pheromone	Pheromone
3,7,11-trimethyl-2,6,10- dodecatriene-1-ol	4601-84-0	NA 983	2269	Pheromone	Pheromone
3-Methyl-2-cyclohexen-1-one	1193-18-6	###### 	NA 124	Insect Repellent, Pheromone	Pheromone
4-(p-acetoxyphenyl)-2- butanone	609379	######	NA 106	Pheromone	Pheromone
4-Methyl-3-heptanol	14979-39-6	#####	NA 962	Pheromone	Pheromone
7,11-hexadecadien-1-ol, acetate	50933-33-0	#####	NA 934	Pheromone	Pheromone
7,8-Epoxi-2-methyl-octadecane	NA 1417	NA 198	NA 197	Pheromone	Pheromone
8-dodecene-1-ol, other related	NA 1150	NA 168	92253	Pheromone	Pheromone
9-tetradecen-1-ol, formate, (Z)- Acetaldehyde,(3,3-	56218-79-2	#####	NA 967	Pheromone	Pheromone
dimethylcyclohexylidene)-,(E)	26532-25-2	#####	5080	Pheromone	Pheromone
beta-Farnesene	18794-84-8	######	NA 110	Pheromone	Dha
Cis-11-tetradecenyl acetate	20711-10-8	#####	5038	Pheromone	Pheromone Pheromone
Distilled cubeb oil	8007-87-2	#####	NA 960	Pheromone	Pheromone
Dodecadienal	NA 1547	NA 226	NA 225	Pheromone	Pheromone
E,E-8,10-dodecadien-1-ol	33956-49-9	#####	1851	Pheromone	Pheromone
E-3,3-dimethyl-delta,alpha- cyclohexane ethanal	NA 951	NA 315	2193	Pheromone	Pheromone
E-8-dodecene	NA 1532	NA 224	NA 224	Pheromone	Pheromone
E-8-dodecenyl acetate	38363-29-0	#####	2252	Pheromone	Pheromone
Farnesol	4602-84-0	#####	2564	Pheromone	Pheromone
Frontalin	28401-39-0	#####	NA 985	Pheromone	Pheromone
Frontalin + alpha-pinene	12701-72-3	#####	NA 986	Pheromone	Pheromone

Chemical Name	CAS Number	U.S. EPA PC	CA Ob-	TT (7)	T
	CASTVUIDE	Code	CA Chem Code	Use Type	Chemical Class
mixture		Coac	Code		<del> </del>
German cockroach pheromone	NA 871	29028	5132	Pheromone	ļ
Isoamyl acetate	123-92-2	NA 167	1422		Pheromone
Isomate LBAM	NA 1438	NA 213	NA 212	Fragrance	Pheromone
Isomate OFM Rosso	NA 1426	NA 213	NA 212	Pheromone	Pheromone
Lauryl alcohol	112-53-8	1509	2343	Pheromone	Pheromone
	112-55-0	1309	2343	Pheromone,	Pheromone,
Luretape (Grandlure)	11104-05-5	#####	NA 923	Adjuvant Pheromone	Alcohol/Ether
Methyl-trans-6-nonenoate	NA 1421	NA 199	NA 198		Pheromone
Multilure	60018-97-5	#####	NA 963	Pheromone Pheromone	Pheromone
Multistriatin	59014-03-8	#####	NA 961		Pheromone
Muscalure	27519-02-4	#####	1858	Pheromone	Pheromone
Myrcene	123-35-3	#####	2189	Pheromone	Pheromone
Nerolidol	7212-44-4	#####		Pheromone	Pheromone
Nerolidol	7212-44-4	#####	2268	Pheromone	Pheromone
Pentyl valerate	2173-56-0	###### ######	2701	Pheromone	Pheromone
Periplanone B	61228-92-0	###### ######	1809	Pheromone	Pheromone
. Pherodim	NA 1424		2766	Pheromone	Pheromone
Pronumone	NA 1425	NA 199	NA 198	Pheromone	Pheromone
Serricornin .	NA 1343	NA 199	NA 198	Pheromone	Pheromone
Tetradecanal		NA 191	NA 190	Pheromone	Pheromone
Trans-11-tetradecenyl acetate	124-25-4	#####	NA 975	Pheromone	Pheromone
trans-6-Nonen-1-ol	33189-72-9	#####	5039	Pheromone	Pheromone
Trimedlure	NA 1404	NA 197	NA 197	Pheromone	Pheromone
· Z-2-isopropenyl-1-methyl	12002-53-8	<del>}}                                   </del>	NA 199	Pheromone	Pheromone
cyclobutane ethanol	26532-22-9	#####	2190	Pheromone	Pheromone
Z-3,3-dimethyl-delta,alpha- cyclohexane ethanal	NA 952	NA 316	2192	Pheromone	Pheromone
Z-3,3-dimethyl-delta,beta-	NA 706	NA 129	2191	Pheromone	Pheromone
cyclohexane ethanol				r neronione	Fueromone
Z-8-dodecene	NA 1531	NA 224	NA 224	Pheromone	Pheromone
Z-8-dodecenol	40642-40-8	#####	2253	Pheromone	Pheromone
Z-8-dodecenyl acetate	28079-04-1	#####	2251	Pheromone	Pheromone
7-(diethyl amino)-4-methyl	91-44-1	NA 341	3146	Rodenticide	Coumarin
coumarin				Acodemicide	Commarin
Brodifacoum	56073-10-0	#####	2049	Rodenticide	Coumarin
Bromadiolone	28772-56-7	#####	2135	Rodenticide	Coumarin
Coumachlor	81-82-3	#####	NA 126	Rodenticide	Coumarin
Coumafuryl	117-52-2	86001	298	Rodenticide	Coumarin
Coumafuryl, sodium salt	34490-93-2	86004	299	Rodenticide	Coumarin
Coumarin	91-64-5	#####	NA 102	Rodenticide	Coumarin
Coumatetralyl	5836-29-3	#####	NA 153	Rodenticide	
Difenacoum	56073-07-5	#####	NA 970	Rodenticide	Coumarin
Flocoumafen	90035-08-8	NA 182	NA 181	Rodenticide	Coumarin
Potassium warfarin	2610-86-8	86005	NA 836	Rodenticide	Coumarin
Pyranocoumarin	NA 1431	NA 199	NA 199	Rodenticide	Coumarin
Warfarin	81-81-2	86002	621	Rodenticide	Coumarin
Warfarin, sodium salt	129-06-6	86003	1184		Coumarin
2-isovaleryl 1-1,3-indandione	83-28-3	67702	1435	Rodenticide	Coumarin
2-isovaleryl 1-1,3-indandione,	23710-76-1	67706		Rodenticide	1,3-Indandione
calcium salt		5,,00	1736	Rodenticide	1,3-Indandione
2-isovaleryl-1,3-indandione, sodium salt	53404-57-2	67709	NA 596	Rodenticide	1,3-Indandione
Chlorophacinone	3691-35-8	67707	1625	Rodenticide	1,3-Indandione
		<del></del>		35 25.1.10140	-,5-manuone

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamiral O
	<u> </u>	Code	Code	Ose Type	Chemical Class
Diphacinone	82-66-6	67701	225	Rodenticide	1,3-Indandione
Diphacinone, sodium salt	42721-99-3	67705	1636	Rodenticide	1,3-Indandione
Pindone	83-26-1	67703	489	Rodenticide	1,3-Indandione
· Pindone, calcium salt	53404-72-1	67708	NA 595	Rodenticide	1,3-Indandione
Pindone, sodium salt	6120-20-3	67704	1305	Rodenticide,	1,3-Indandione
		3,,,,	1505	Bird Repellent	1,5-mdandione
4-Hydroxymethyl	NA 1173	NA 177	NA 165	Breakdown	2,6-Dinitroaniline
pendimethalin				product	2,0-Dimitoanime
Benfluralin	1861-40-1	84301	53	Herbicide	2,6-Dinitroaniline
Butralin	33629-47-9	#####	1756	Herbicide	2,6-Dinitroaniline
Dinitramine	29091-05-2	#####	1683	Herbicide	2,6-Dinitroaniline
Dipropalin	5332	#####	NA 145	Herbicide	2,6-Dinitroaniline
Ethalfluralin	55283-68-6	#####	2166	Herbicide	2,6-Dinitroaniline
Fluazinam	79622-59-6	#####	3898	Fungicide	2,6-Dinitroaniline
Fluchloralin	33245-39-5	#####	1848	Herbicide	2,6-Dinitroaniline
Flumetralin	62924-70-3	#####	5085	Plant Growth	2,6-Dinitroaniline
				Regulator	2,0-1211111041111111111111
Isopropalin	33820-53-0	#####	1681	Herbicide	2,6-Dinitroaniline
N,N-Bis(2-chloroethyl)-4-	26389-78-6	#####	NA 135	N/A	2,6-Dinitroaniline
methyl-2,6-dinitroaniline					_, _,
Nitralin	4726-14-1	37601	490	Herbicide	2,6-Dinitroaniline
· Oryzalin	19044-88-3	#####	1868	Herbicide	2,6-Dinitroaniline
Pendimethalin	40487-42-1	#####	1929	Herbicide	2,6-Dinitroaniline
Prodiamine	29091-21-2	#####	2236	Herbicide	2,6-Dinitroaniline
Prodiamine, other related	NA 1149	NA 168	92236	Herbicide	2,6-Dinitroaniline
Profluralin	26399-36-0	#####	1897	Herbicide	2,6-Dinitroaniline
Profluralin, other related	NA 1141	NA 167	91897	Herbicide	2,6-Dinitroaniline
Trifluralin	1582-09-8	36101	597	Herbicide	2,6-Dinitroaniline
1-(3-	51971-67-6	#####	NA 110	N/A	Carboxamide
chlorophthalimido)cyclohexane					
carboxamide					•
Allidochlor	93-71-0	19301	114	Herbicide	Amide
Allidochlor	202-270-7	NA 210	NA 210	Herbicide	Amide
Ammonium benzadox	5251-79-6	98201	NA 858	Herbicide	Amide
Beflubutamid	113614-08-7	NA 230	NA 230	Herbicide	Amide
Benzadox	5251-93-4	######	NA 132	Herbicide	Amide
Benzipram	35256-86-1	#####	NA 133	Herbicide	Amide
Bromobutide	74712-19-9	NA 203	NA 203	Herbicide	Amide
Carboxin	5234-68-4	90201	1755	Fungicide	Carboxamide
Chlorthiamid	1918-13-4	######	NA 139	Herbicide	Amide
Cisanilide	34484-77-0	#####	NA 144	Herbicide	Carboxamide
Cyclafuramide	34849-42-8	#####	NA 132	Fungicide	Carboxamide
Cyprazole	42089-03-2	#####	NA 132	Herbicide	Amide
Dimethenamid	87674-68-8	#####	5112	Herbicide	Amide
Diphenamid	957-51-7	36601	226	Herbicide	Amide
Epronaz	59026-08-3	NA 231	NA 231	Herbicide	Amide
Etnipromid	76120-02-0	NA 231	NA 231	Herbicide	Amide
Fenfuram	24691-80-3	NA 188	NA 187	Fungicide	Carboxamide
Fentrazamide	158237-07-1	NA 232	NA 231	Herbicide	Amide
Flupoxam	119126-15-7	NA 188	NA 188	Herbicide	Amide
Furmecyclox (Xyligen B)	60568-05-0	#####	NA 18	Fungicide	Carboxamide
Halosafen	77227-69-1	NA 229	NA 229	Herbicide	Amide, Nitrophenyl ether
Isocarbamide	30979-48-7	NA 183	NA 182	Herbicide	Amide

Chemical Name	CAS Number	TTC EDA DO	la e	T	
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Isoxaben	82558-50-7	Code	Code		
Methfuroxam		#####	2289	Herbicide	Amide
Metsulfovax	28730-17-8	#####	NA 949	Fungicide	Carboxamide
	21452-18-6	NA 189	NA 188	Fungicide	Carboxamide
Napropamide	15299-99-7	#####	1728	Herbicide	Amide
Naptalam	132-66-1	30702	2998	Herbicide	Amide
Naptalam, sodium salt	132-67-2	30703	437	Herbicide	Amide
Nitrofurazone (not subject to	59-87-0	######	NA 128	N/A	Carboxamide
FIFRA: 8709-e pm 24)					
Oxycarboxin	5259-88-1	90202	1434	Fungicide	Carboxamide
p-Benzoquinone	61566-21-0	######	NA 133	N/A	Carboxamide
semicarbazone					
Pethoxamid	106700-29-2	NA 233	NA 233	Herbicide	Amide
Propyzamide	23950-58-5	#####	694	Herbicide	Amide
Propyzamide metabolite	NA 1048	NA 155	4093	Breakdown	Amide
				product	
Quinonamid	27541-88-4	NA 210	NA 209	Herbicide	Amide
2-Hydroxy alachlor	NA 943	NA 183	2602	Breakdown	Chloroacetanilide
245.7		·		product	
3,4,5-tribromo salicylanilide,	NA 1122	NA 165	90833	Microbiocide	Anilide
other related					
3,5-dibromosalicylanilide	2577-72-2	77405	1256	Microbiocide	Anilide
5,4-dibromosalicylanilide	NA 1024	NA 122	1071	Microbiocide	Anilide
Aatram (propachlor with	8070-76-6	80816	NA 781	Herbicide	Triazine,
atrazine) (019101+080803)					Chloroacetanilide ·
Acetochlor	34256-82-1	#####	2349	Herbicide	Chloroacetanilide
Alachlor	15972-60-8	90501	678	Herbicide	Chloroacetanilide
Benodanil	15310-01-7	#####	NA 154	Fungicide	Anilide
Butachlor	23184-66-9	#####	4056	Herbicide	Chloroacetanilide
Butenachlor	87310-56-3	NA 206	NA 206	Herbicide	Chloroacetanilide
Clomeprop	84496-56-0	NA 204	NA 203	Herbicide	Anilide
Cyprofuram	69581-33-5	NA 186	NA 185	Fungicide	Anilide
Cypromid	2759-71-9	26101	178	Herbicide	Anilide
Delachlor	24353-58-0	#####	NA 132	Herbicide	Chloroacetanilide
Diethatyl-ethyl	38727-55-8	#####	1995	Herbicide	Chloroacetanilide
Diflufenican	83164-33-4	NA 184	NA 183	Herbicide	Anilide
Dimethachlor	50563-36-5	NA 184	NA 183	Herbicide	Chloroacetanilide
Etobenzanid	79540-50-4	NA 229	NA 228	Herbicide	Anilide
Fenasulam	78357-48-9	NA 231	NA 231	Herbicide	Anilide
Flufenacet	142459-58-3	#####	5293	Herbicide	Anilide
Flufenican	NA 1568	NA 234	NA 234	Herbicide	
Flutolanil	66332-96-5	#####	2305	Fungicide	Anilide
Mefenacet	73250-68-7	NA 189	NA 188	Herbicide	Anilide
Mefluidide	53780-34-0	#####	5082	Herbicide,	Anilide
			3082	Plant Growth	Anilide
				Regulator	
Mefluidide, diethanolamine salt	53780-36-2	#####	1955	Herbicide	Anilia
Mefluidide, potassium salt	83601-83-6	#####	5083	Herbicide	Anilide
Mepronil	55814-41-0	NA 189	NA 188	Fungicide	Anilide
Metazachlor	67129-08-2	NA 184	NA 183	Herbicide	Anilide
Metolachlor	51218-45-2	#####	1996		Chloroacetanilide
Metolachlor, (S)	87392-12-9	#####	5133	Herbicide	Chloroacetanilide
Monalide	7287-36-7	#####		Herbicide	Chloroacetanilide
Naproanilide	52570-16-8		NA 134	Herbicide	Anilide
Ofurace	58810-48-3	NA 233 NA 189	NA 232	Herbicide	Anilide
	20010-40-3	14W 10A	NA 188	Fungicide	Anilide

Chemical Name	CAS Number	TI C EDA DO	04.07	_ <del></del>	
<u>Chemical Ivanie</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Oxadixyl	77732-09-3	Code	<u>Code</u>		
Perfluidone		#####	3539	Fungicide	Anilide
	37924-13-3	#####	1895	Herbicide	Anilide
Perfluidone, diethanolamine salt	NA 991	NA 671	1896	Herbicide	Anilide
Pretilachlor	51010 40 6				
	51218-49-6	NA 184	NA 184	Herbicide	Chloroacetanilide
Propachlor	1918-16-7	19101	511	Herbicide	Chloroacetanilide
Propanil	709-98-8	28201	503	Herbicide	Anilide
Propisochlor	86763-47-5	NA 233	NA 233	Herbicide	Chloroacetanilide
Prynachlor	21267-72-1	#####	NA 138	Herbicide,	Chloroacetanilide
				Plant Growth	
Down and all I	0.4504.55.5			Regulator	
Pyracarbolid	24691-76-7	NA 210	NA 209	Fungicide	Anilide
Salicylanilide	87-17-2	77407	450	Fungicide,	Anilide
C-4:1:-1-1:1				Microbiocide	
Sodium salicylanilide	251930	#####	NA 145	Fungicide	Anilide
Thenylchlor	96491-05-3	NA 229	NA 229	Herbicide	Chloroacetanilide
Triclocarban	101-20-2	27901	844	N/A	Anilide
Benzoylprop	22212-56-2	NA 182	NA 181	Herbicide	Arylalanine
Benzoylprop ethyl	22212-55-1	#####	NA 147	Herbicide	Arylalanine
Benzoylprop-ethyl	33878-50-1	NA 206	NA 205	Herbicide	Arylalanine
Flamprop .	58667-63-3	NA 188	NA 187	Herbicide	Arylalanine
Flamprop-isopropyl	52756-22-6	#####	NA 154	Herbicide	Arylalanine
Flamprop-M-isopropyl	57973-67-8	#####	NA 154	Herbicide	Arylalanine
Flamprop-M-methyl	57973-66-7	#####	NA 104	Herbicide	Arylalanine
Flamprop-methyl	52756-25-9	#####	NA 154	Herbicide	Arylalanine
Chlorazifop	60074-25-1	NA 231	NA 230	Herbicide	Aryloxyphenoxy
				2102010100	propionic acid
Clodinafop	114420-56-3	NA 182	NA 182	Plant Growth	Aryloxyphenoxy
				Regulator	propionic acid
Clodinafop-propargyl	105512-06-9	#####	NA 163	Plant Growth	Aryloxyphenoxy
·			ł	Regulator	propionic acid
Clofop	26129-32-8	NA 207	NA 206	Herbicide	Aryloxyphenoxy
					propionic acid
Cyhalofop	122008-78-0	NA 204	NA 203	Herbicide	Aryloxyphenoxy
					propionic acid
Cyhalofop butyl	122008-85-9	NA 215	5748	Herbicide	Aryloxyphenoxy
B: 1.6					propionic acid
Diclofop	40843-25-2	######	NA 912	Herbicide	Aryloxyphenoxy
Distance of 1					propionic acid
Diclofop-methyl	51338-27-3	#####	2034	Herbicide	Aryloxyphenoxy
Fonovones other	00110 70 0				propionic acid
Fenoxaprop-ethyl (stereochemistry unspecified)	82110-72-3	NA 201	NA 200	Herbicide	Aryloxyphenoxy
Fenoxaprop-P (+)	71002 00 0				propionic acid
renoxaprop-P (+)	71283-80-2	#####	5123	Herbicide	Aryloxyphenoxy
Fenoxaprop-P (+/-)	66441-23-4	110000			propionic acid
I onoxaprop=1 (17-)	00441-23-4	#####	2311	Herbicide	Aryloxyphenoxy
Fenoxaprop-P-ethyl	113158-40-0	NIA 220	NA 610		propionic acid
z onoxaprop-1 -curyi	113136-40-0	NA 220	NA 219	Herbicide	Aryloxyphenoxy
Fenthiaprop (racemic)	95721-12-3	NA 207	NIA 207	77. 1	propionic acid
- ommaprop (raccime)	95/21-12-5	INA 207	NA 207	Herbicide	Aryloxyphenoxy
Fenthiaprop (unstated	73519-50-3	NA 218	NIA 217	TT-1.	propionic acid
stereochemistry)	,551,50-5	110 210	NA 217	Herbicide	Aryloxyphenoxy
Fenthiaprop-ethyl (racemic)	93921-16-5	NA 218	NA 217	Troub i - i d	propionic acid
	10-5	1111210	NG 21/	Herbicide	Aryloxyphenoxy
					propionic acid

Chemical Name   CAS Number   U.S. EPA PC   CA Chem   Code   Cod	Chemical Name	CAGNE	177 777 777	101.01		
Fenthiaprop-ethyl (unstated stereochemistry)	<u>Chemical Name</u>	CAS Number			Use Type	Chemical Class
Stereochemistry   69335-91-7   NA 194   NA 193   Herbicide	Fenthianron-ethyl (unstated	66441 11 0				
Fluazifop 69335-91-7 NA 194 NA 193 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propio		00441-11-0	NA 218	NA 217	Herbicide	Aryloxyphenoxy
Fluazifop-butyl 69806-50-4 ##### 2186 Herbicide Aryloxyphenoxy propionic acid Pluazifop-P-butyl 79241-46-6 ##### NA 995 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic a		60335-01-7	NA 104	NIA 102	771-1-1	
Fluazifop-P-butyl 79241-46-6 ##### NA 995 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy	Taubhop	09333-91-7	NA 194	NA 193	Herbicide	
Fluazifop-P-butyl 79241-46-6 ##### NA 995 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Propaquizafop  Tropaquizafop  luazifon-butyl	69806-50-4	#11111111	2196	TT. 1 * * 1		
Finazifop-P-butyl 79/241-46-6 ##### NA 995 Herbicide propionic acid Fluazifop-P-butyl 83066-88-0 NA 228 NA 228 Herbicide propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Attractochemistry)  Haloxyfop (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Fropaquizafop Representation of the propionic acid Aryloxyphenoxy p	1 Muzirop-outyr	09800-30-4	######	2186	Herbicide	
Fluazifop-P-butyl 83066-88-0 NA 228 NA 228 Herbicide Aryloxyphenoxy propionic acid stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzo	Fluazifon-P-hutyl	70241 46 6	***************************************	374 005	77 1111	
Haloxyfop (unstated stereochemistry) Haloxyfop-etotyl (unstated stereochemistry) Haloxyfop-etotyl (unstated stereochemistry) Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-R  72619-32-0  NA 191  NA 190  Herbicide Aryloxyphenoxy propionic acid Glycol Ether Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Microbicoide  4-hydroxy-m-phenoxy benzoic acid 50-79-3  NA 224  NA 224  NA 224  NA 224  NA 224  Fungicide Benzoic acid Benzoic acid Microbicoide  4-hydroxy-m-phenoxy benzoic acid Benzoic acid Microbicoide  Aryloxybenoxy Benzoic acid Microbicoide  Chloramben  133-90-4  29901  Butyl paraben  94-26-8  61205  NA 496  Fungicide, Benzoic acid Benzoic acid Benzoic acid Dicamba with 2,4-D & Silvex  NA 1121  NA 165  90831  Herbicide Benzoic acid Benzoic acid Benzoic acid Dicamba, aluminium salt  NA 121	- I butyi	77241-40-0	######	NA 995	Herbicide	
Haloxyfop (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Propionic acid Aryloxyphenoxy propionic acid propionic acid stereochemistry)  Propaquizatop  Propaquizatop  Trofop (2012alofop)  Propaquizatofop (2012alofop)  Quizalofop-ethyl (2012alofop-8 NA 180 NA 180 Herbicide propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Methyl ester Aryloxyphenoxy Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy Benzoic acid Benzoic	Fluazifon-P-hutyl	83066 88 0	NIA 220	NIA 200	TT 11	
Haloxyfop-etotyl (unstated stereochemistry)   Haloxyfop-etotyl (unstated stereochemistry)   Haloxyfop-etotyl (unstated stereochemistry)   Haloxyfop-etotyl (unstated stereochemistry)   Haloxyfop-methyl (unstated stereochemistry)   Haloxyfop-methyl (unstated stereochemistry)   Haloxyfop-R   T2619-32-0   NA 191   NA 190   Herbicide Aryloxyphenoxy propionic acid Ary	- Interior 2 Subj.	05000-86-0	NA 226	NA 228	Herbicide	
stereochemistry) Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Propaquizafop  111479-05-1  NA 191  NA 190  Herbicide  Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Microbiocide  Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid Benzoic acid Dicamba, aluminum salt NA 1215 #### NA 170 Herbicide Benzoic acid Dicamba, diebanolamine sal	Haloxyfon (unstated	69806-34-4	#####	NTA 100	TT 1 1 1 1	
Haloxyfop-etotyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Fropaquizafop  Haloxyfop-R  Propaquizafop  111479-05-1  NA 191  NA 190  Herbicide  Aryloxyphenoxy propionic acid, Glycol Ether  Aryloxyphenoxy propionic acid  Aryloxyphenoxy p		05000-54-4	numm	NA 100	Heroicide	
stereochemistry)  Haloxyfop-methyl (unstated stereochemistry)  Haloxyfop-R  72619-32-0  NA 191  NA 190  Herbicide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Dicamba, aluminium salt Dicamba Bilaxyba, and a Benzoic acid Benzoic acid Dicamba, aluminium salt NA 1215  Dicamba, diebanolamine salt		87237-48-7	NA 200	NA 100	TTantition	
Haloxyfop-methyl (unstated stereochemistry)		07237-70-7	14A 200	INA 199	neroicide	Aryloxyphenoxy
Haloxyfop-metnyl (unstated stereochemistry)	,					
Stereochemistry   Technology	Haloxyfop-methyl (unstated	690806-40-2	<del>1111 11 11 11</del>	NA 10	Hodieid-	
Haloxyfop-R 72619-32-0 NA 191 NA 190 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy prop	stereochemistry)	050000-40-2	<i>11 11 11 11 11</i>	. IVA 19	rieroicide	
Propaquizafop 111479-05-1 NA 185 NA 184 Herbicide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Benzoic acid Dicamba punctum salt NA 1215 ##### NA 120 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Bicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Bicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Bicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Bicamba, diethanolamine salt 25059-78-3 29803 780 Herbi	Haloxyfop-R	72619-32-0	NA 191	NA 100	Uorbioida	
Quizalofop 76578-12-6 NA 190 NA 189 Herbicide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Microbiocide Benzoic acid Microbiocide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Microbiocide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Dicamba Information I	J	72019 52 0	1121 151	IVA 190	Herbicide	
Quizalofop 76578-12-6 NA 190 NA 189 Herbicide Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxy-m-phenoxy benzoic acid Six-36-5 NA 156 4066 Microbiocide Benzoic acid Aryloxy-m-phenoxy benzoic acid Aryloxy-m-phenoxy benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Microbiocide Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid Benzoic acid Chloramben, ammonium salt, NA 1121 NA 165 90831 Herbicide Benzoic acid Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid	Propaguizafop	111479-05-1	NA 185	NA 194	Uorbioida	
Quizalofop-ethyl 76578-12-6 NA 190 NA 189 Herbicide Aryloxyphenoxy propionic acid Benzoic acid 295-bichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid Benzoic acid 35-36-5 NA 156 4066 N/A Benzoic acid Benzoic acid 4-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Aryloxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Chloramben, ammonium salt, NA 1121 NA 165 90831 Herbicide Benzoic acid Dicamba in 1918-00-9 29801 200 Herbicide Benzoic acid Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamina salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, diethanolamina salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, diethanolamina salt 25059-78-3 29803 780 Herbicide Benzoic acid	1 1 1 1 1 1 1	1 2221/2 03 1	1421 105	14A 104	nerbicide	
Quizalofop-ethyl 76578-14-8 ##### 2226 Herbicide Aryloxyphenoxy propionic acid Principle Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Dicamben animonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Benzoic acid Dicamba butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichanolam	Quizalofop	76578-12-6	NA 190	NA 180	Harbinida	
Quizalofop-P 94051-08-8 NA 185 NA 184 Herbicide Aryloxyphenoxy propionic acid Benzoic acid Spot-69-3 NA 224 NA 224 Fungicide Benzoic acid Benzoic acid Spot-69-3 NA 224 NA 224 Fungicide Benzoic acid Spot-69-3 NA 156 Herbicide Benzoic acid Microbiocide A-hydroxy-mphenoxy benzoic acid Spot-69-7 NA 200 NA 199 N/A Benzoic acid Microbiocide Spot-69-7 NA 200 NA 199 N/A Benzoic acid Benzoic acid Spot-69-8 NA 496 Fungicide, Microbiocide Benzoic acid Chloramben Spot-64-65 Spot-64-6		''''	. 1121 150	11A 169	Herbicide	
Quizalofop-P 94051-08-8 NA 185 NA 184 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid 2,5-Dichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid Benzoic acid MA 2-24 Fungicide Benzoic acid Benzoic acid MA 2-24 Fungicide Benzoic acid 3,5-dichlorobenzoic acid 51-36-5 NA 156 4066 N/A Benzoic acid Benzoic acid Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Benzoic acid Ma 2-24 Fungicide, Benzoic acid Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Microbiocide Ma 2-24 Fungicide, Benzoic acid Microbiocide Ma 2-24 Fungicide, Benzoic acid Microbiocide M	Quizalofop-ethyl	76578-14-8	. #####	2226	Uorbinida	
Quizalofop-P-ethyl 100646-51-3 NA 185 NA 184 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid A-hydroxy-m-phenoxy benzoic acid S1-36-5 NA 176 September		, , , , , , , , , , , , , , , , , , , ,	"""" <del>"</del>	2220	neroicide	
Quizalofop-P-ethyl   100646-51-3   NA 212   NA 211   Herbicide   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Aryloxyphenoxy propionic acid   Benzoic acid	Quizalofop-P	94051-08-8	NA 185	NA 184	Uorbioido	
Quizalofop-p-tefuryl 119738-06-6 NA 202 NA 202 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid A-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid Benzoic acid Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Benzoic acid Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Benzoic acid Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dicharance salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, dicharance and property and property and property and property and property acid Benzoic acid Dicamba, dicharance salt 25059-78-3 29803 780 Herbicide Benzoic acid		1 1001 00 0	141105	104	Heroicide	
Quizalofop-p-tefuryl 119738-06-6 NA 202 NA 202 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Aryloxy-m-phenoxy benzoic acid S1-36-5 NA 156 4066 N/A Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Benzoic acid Chloramben S13-90-4 S19-901 S184 Herbicide Benzoic acid Chloramben, ammonium salt S1 NA 1121 NA 165 90831 Herbicide Benzoic acid Benzoic acid Dicamba Mit 2,4-D 8068-77-7 S19807 NA 219 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 #### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichhandamine salt S1 1076-46 S1983 S1 S19803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Benzoic acid Dicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Bicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Bicamba, dichhandamine salt S15059-78-3 S1803 T80 Herbicide Benzoic acid Bicamba, dichhand	Quizalofop-P-ethyl	100646-51-3	NA 212	NA 211	Herbioido	
Trifop 58594-74-4 NA 234 NA 233 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid 2,5-Dichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid Benzoic acid Methyl ester 3,5-dichlorobenzoic acid 51-36-5 NA 156 4066 N/A Benzoic acid Benzoic acid 4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Microbiocide Aryloxy-m-phenoxy benzoic acid Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Benzoic acid Microbiocide Microbioc				1171 211	Herorcide	
Trifop 58594-74-4 NA 234 NA 233 Herbicide Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Aryloxyphenoxy propionic acid Benzoic acid 2,5-Dichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid Benzoic acid Methyl ester 3,5-dichlorobenzoic acid 51-36-5 NA 156 4066 N/A Benzoic acid 4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Benzoic acid 4-hydroxy benzoic acid 99-96-7 NA 200 NA 199 N/A Benzoic acid 5-hydroxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Benzoic acid Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt, other related Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloralester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichlorale	Quizalofop-p-tefuryl	119738-06-6	NA 202	NA 202	Herbicida	
2,5-Dichlorobenzoic acid 50-79-3 NA 224 NA 224 Fungicide Benzoic acid 2,5-Dichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid methyl ester 3,5-dichlorobenzoic acid 51-36-5 NA 156 4066 N/A Benzoic acid 4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide 4-hydroxy benzoic acid 99-96-7 NA 200 NA 199 N/A Benzoic acid 5-hydroxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt NA 1121 NA 165 90831 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichloramic salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichloramic salt 1006-07-1 (1990) NA 219 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba dichloramic salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichloramic salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichloramic salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichloramic salt 25059-78-3 29803 780 Herbicide Benzoic acid				111202	Horbiciae	
2,5-Dichlorobenzoic acid 50-79-3 NA 224 NA 224 Fungicide Benzoic acid 2,5-Dichlorobenzoic acid 2905-69-3 NA 224 NA 224 Fungicide Benzoic acid methyl ester 3,5-dichlorobenzoic acid 51-36-5 NA 156 4066 N/A Benzoic acid 4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide acid 4'-hydroxy benzoic acid 99-96-7 NA 200 NA 199 N/A Benzoic acid 5-hydroxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt NA 1121 NA 165 90831 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, dichanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba dichanolamine salt 1006-07-1 (1990)	Trifop	58594-74-4	NA 234	NA 233	Herbicide	
2,5-Dichlorobenzoic acid 2,905-69-3 NA 224 NA 224 Fungicide Benzoic acid 2,5-Dichlorobenzoic acid 3,5-dichlorobenzoic acid 3,5-dichlorobenzoic acid 4'-hydroxy-m-phenoxy benzoic acid 4'-hydroxy-m-phenoxy benzoic acid 4'-hydroxy-dicamba NA 840 NA 156 NA 156 Herbicide, Benzoic acid Benzoic acid 4-hydroxy-dicamba NA 840 NA 156 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Fungicide, Microbiocide Benzoic acid Dicamba with 2,4-D Bonzoic acid Benzoic acid	·			111233	ricioloide	
2,5-Dichlorobenzoic acid methyl ester  3,5-dichlorobenzoic acid 4'-hydroxy-m-phenoxy benzoic acid 4-hydroxy benzoic acid 5-hydroxy-dicamba NA 840 NA 156 NA 156 NA 199 N/A Benzoic acid		50-79-3	NA 224	NA 224	Fungicide	
Mathy   Setz   Mathy	2,5-Dichlorobenzoic acid	2905-69-3				
4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Mi	methyl ester		- 12.2.2.	1111 227	1 ungicide	Benzoic acid
4'-hydroxy-m-phenoxy benzoic acid 35065-12-4 NA 176 2609 Fungicide, Microbiocide Benzoic acid 4-hydroxy benzoic acid 99-96-7 NA 200 NA 199 N/A Benzoic acid 5-hydroxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide Benzoic acid Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt, other related NA 1121 NA 165 90831 Herbicide Benzoic acid Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Benzoic acid Dicamba dilyscolorides NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid	3,5-dichlorobenzoic acid	51-36-5	NA 156	4066	N/Δ	Dengois said
acid  4-hydroxy benzoic acid  99-96-7  NA 200  NA 199  N/A  Benzoic acid  5-hydroxy-dicamba  NA 840  NA 156  Benzoic acid  Benzoic acid  Breakdown  product  Butyl paraben  94-26-8  Chloramben  133-90-4  Chloramben, ammonium salt  1076-46-6  Chloramben, ammonium salt, other related  Dicamba, butoxyethyl ester  NA 1477  NA 220  NA 219  Herbicide  Benzoic acid  Dicamba, diethanolamine salt	4'-hydroxy-m-phenoxy benzoic					
4-hydroxy benzoic acid  5-hydroxy-dicamba  NA 840  NA 156  NA 156  NA 156  Herbicide, Breakdown product  Butyl paraben  94-26-8  Chloramben  133-90-4  Chloramben, ammonium salt  Chloramben, ammonium salt  Other related  Dicamba  Dicamba with 2,4-D  Dicamba, aluminium salt  NA 1215  NA 1215  NA 1215  NA 1216  NA 1216  Dicamba, aluminium salt  NA 1215  NA 1216  NA 1216  Dicamba, butoxyethyl ester  NA 1217  NA 1220  NA 220  NA 219  Herbicide  Benzoic acid	acid		1.22170	2005		Benzoic acid
5-hydroxy-dicamba NA 840 NA 156 4065 Herbicide, Breakdown product  Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide  Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid  Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid  Chloramben, ammonium salt, NA 1121 NA 165 90831 Herbicide Benzoic acid  Other related  Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid  Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid  Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid  Dicamba, diethanolamine salt 25059-78-3 29808 NA 220 NA 219 Herbicide Benzoic acid  Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid	4-hydroxy benzoic acid	99-96-7	NA 200	NA 199		Pommeio e sid
Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide  Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid  Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid  Chloramben, ammonium salt, other related  Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid  Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid  Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid  Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid  Dicamba, dighycolomics celt 104040 70.1	5-hydroxy-dicamba	NA 840				
Butyl paraben  94-26-8  61205  NA 496  Fungicide, Microbiocide  Chloramben  133-90-4  29901  2184  Herbicide  Benzoic acid  Chloramben, ammonium salt  1076-46-6  29902  831  Herbicide  Benzoic acid			1111111	4005		Benzoic acid
Butyl paraben 94-26-8 61205 NA 496 Fungicide, Microbiocide  Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid  Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid  Chloramben, ammonium salt, other related  Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid  Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid  Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid  Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid  Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid  Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid				ļ		
Chloramben 133-90-4 29901 2184 Herbicide Benzoic acid Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt, other related Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid	Butyl paraben	94-26-8	61205	NA 496		Domaio esid
Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt 1076-46-6 29902 831 Herbicide Benzoic acid Chloramben, ammonium salt, other related Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid Dicamba, dighycolamine salt 104040-70 1 188000 PRINTER				141450		Benzoic acid
Chloramben, ammonium salt Chloramben, ammonium salt, other related  Dicamba Dicamba with 2,4-D Dicamba, aluminium salt Dicamba, aluminium salt Dicamba, butoxyethyl ester Dicamba, dighycolamine salt	Chloramben	133-90-4	29901	2184		Domesia id
Chloramben, ammonium salt, other related  Dicamba  Dicamba with 2,4-D  Dicamba with 2,4-D & Silvex  Dicamba, aluminium salt  Dicamba, butoxyethyl ester  Dicamba, diethanolamine salt  Dicamba, dighycolamine salt	Chloramben, ammonium salt					
Other related  Dicamba  1918-00-9  29801  200  Herbicide  Benzoic acid  Dicamba with 2,4-D  8068-77-7  29807  NA 219  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Dicamba, aluminium salt  NA 1215  #####  NA 170  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Dicamba, butoxyethyl ester  NA 1477  NA 220  NA 219  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Dicamba, diethanolamine salt  25059-78-3  29803  780  Herbicide  Benzoic acid  Benzoic acid						
Dicamba 1918-00-9 29801 200 Herbicide Benzoic acid Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid			112 103	30031	neroicide	Benzoic acid
Dicamba with 2,4-D 8068-77-7 29807 NA 219 Herbicide Benzoic acid Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid		1918-00-9	29801	200	Worbisida	
Dicamba with 2,4-D & Silvex 8073-53-8 29808 NA 220 Herbicide Benzoic acid Dicamba, aluminium salt NA 1215 ##### NA 170 Herbicide Benzoic acid Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid						
Dicamba, aluminium salt  NA 1215  William NA 170  Herbicide  Benzoic acid  Dicamba, butoxyethyl ester  NA 1477  NA 220  NA 219  Herbicide  Benzoic acid  Dicamba, diethanolamine salt  25059-78-3  29803  780  Herbicide  Benzoic acid  Dicamba, diglycolamine salt  104040-70-1						
Dicamba, butoxyethyl ester NA 1477 NA 220 NA 219 Herbicide Benzoic acid  Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid  Dicamba diglycolamine salt 104040 70 1						
Dicamba, diethanolamine salt 25059-78-3 29803 780 Herbicide Benzoic acid						
Dicamba dialycolomina celt 104040 70.1						Benzoic acid
Dicamba, digrycolamine sait   104040-79-1   #####   5007   Herbicide   Benzoic acid						Benzoic acid
	Dicamoa, digiycolamine salt	104040-79-1	#####	5007	Herbicide	Benzoic acid

Dicamba, dimethylamine salt   2300-66-5   29802   849   Herbicide   Benzoic acid	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Dicamba, dimethylamine salt   Dicamba, dimethylamine salt   Dicamba, indeptylamine salt   Dicamba, indeptylamine salt   Dicamba, indeptylamine salt   S5871-02-8   #####   NA 146   Herbicide   Benzoic acid   Dicamba, methyl ester   G597-78-0   #####   NA 146   Herbicide   Benzoic acid   Dicamba, methyl ester   G597-78-0   #####   NA 146   Herbicide   Benzoic acid   Dicamba, monoethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Benzoic acid   Dicamba, monoethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Dicamba, other related   NA 1084   NA 167   91829   Herbicide   Benzoic acid   Dicamba, other related   NA 1084   NA 161   90200   Herbicide   Benzoic acid   Dicamba, potassium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, potassium salt   1982-69-0   29805   1113   Herbicide   Benzoic acid   MA 1833   NA 195   NA 194   Fungicide   Benzoic acid   Ma 1833   NA 195   NA 194   Fungicide   Benzoic acid   Methylester   Dichanolamine 3-amino-2,5-   3404-16-3   29904   NA 222   Herbicide   Benzoic acid   Dicamba, sicylate   7491-21-6   39302   2003   Insecticide, Fungicide,   Benzoic acid   Methyl paraben   120-47-8   61202   3204   Fungicide,   Benzoic acid   Methyl paraben   178-69   76603   3231   Insecticide,   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide,   Benzoic acid   Methyl paraben   99-76-3   61204					<u> </u>	Chemical Class
Dicamba, dimethylamine salt other related   Dicamba, isopropylamine salt   55871-02-8   #####   5098   Herbicide   Benzoic acid   Dicamba, isopropylamine salt   6597-78-0   #####   NA 146   Herbicide   Benzoic acid   Benzoic acid   Dicamba, monoethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Benz		2300-66-5	29802		Herbicide	Benzoic acid
Dicamba, monethanolamine   53404-28-7   29804   1829   Herbicide   Benzoic acid	Dicamba, dimethylamine salt, other related	NA 1123	NA 165	90849	Herbicide	
Dicamba, mentyl ester   C597-78-0   #####   NA 146   Herbicide   Benzoic acid   Dicamba, monoethanolamine   S3404-28-7   29804   1829   Herbicide   Benzoic acid   Dicamba, monoethanolamine   S404-28-7   29804   1829   Herbicide   Benzoic acid   Dicamba, other related   Dicamba, other related   Dicamba, potassium salt   10007-85-9   #####   S110   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Ma 1383   NA 195   NA 194   Pungicide   Benzoic acid   Methylester   Dichanolamine 3-amino-2,5   53404-16-3   29904   NA 222   Herbicide   Benzoic acid   Methylester   Dodecylamine salicylate   7491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Microbiocide   Methyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Methyl paraben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Benzoic acid   Propyl paraben, calcium salt   35285-69-9   61204   NA 495   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben, calcium salt   35285-69-9   61204   NA 495   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   B	Dicamba, isopropylamine salt	55871-02-8	#####	5098	Herbicide	Benzoic acid
Dicamba, monoethanolamine salt   Dicamba, monoethanolamine salt, other related   Dicamba, monoethanolamine salt, other related   Dicamba, other related   NA 1084   NA 161   90200   Herbicide   Benzoic acid   Dicamba, other related   NA 1084   NA 161   90200   Herbicide   Benzoic acid   Dicamba, potassium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, potassium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Dichlorobenzoic acid   NA 1383   NA 195   NA 194   Fungicide   Benzoic acid   methylester   Dichlanolamine 3-amino-2,5-   3404-16-3   29904   NA 222   Herbicide   Benzoic acid   Methyl paraben   120-47-8   61202   3204   Fungicide,   Benzoic acid   Microbiocide   Benzoic acid   Methyl paraben   18-56-9   76603   3231   Insecticide,   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide,   Benzoic acid   Microbiocide   Methyl paraben   99-76-3   61201   1005   Fungicide,   Benzoic acid   Microbiocide   Monomethylammonium   25182-03-0   61207   NA 498   Fungicide,   Benzoic acid   Monomethylammonium   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Monomethylammonium   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61204   N	Dicamba, methyl ester	6597-78-0	#####	NA 146		
salt, other related Dicamba, other related Dicamba, potassium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, sodium salt Dicamba, riethanolamine salt S3404-29-8 29805 Dicamba, riethanolamine salt Dicamba, riethanolamine salt Dicamba, riethanolamine salt Dicamba, riethanolamine salt Dicamba, riethanolamine salt Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, sodium salt Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolamina Dicamba, riethanolami	salt	53404-28-7	29804	1829		
Dicamba, potassium salt	salt, other related	NA 1140	NA 167	91829	Herbicide	Benzoic acid
Dicamba, sodium salt   1982-69-0   29806   5057   Herbicide   Benzoic acid   Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Dichlorobenzoic acid   NA 1383   NA 195   NA 194   Fungicide   Benzoic acid   methylester			NA 161	90200	Herbicide	Benzoic acid
Dicamba, triethanolamine salt   53404-29-8   29805   1113   Herbicide   Benzoic acid   Dichlorobenzoic acid   NA 1383   NA 195   NA 194   Fungicide   Benzoic acid   Benzoic acid   methylester   Diethanolamine 3-amino-2,5-   dichlorobenzoate   7491-21-6   39302   2003   Insecticide,   Fungicide,   Microbiocide   Benzoic acid   Fungicide,   Microbiocide   Benzoic acid   Fungicide,   Microbiocide   Benzoic acid   Fungicide,   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide,   Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide,   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide,   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide,   Benzoic acid   Propyl paraben, sodium salt   83542-69-2   61206   NA 497   Fungicide,   Benzoic acid   Propyl paraben, sodium salt   35285-69-9   61204   NA 495   Fungicide,   Benzoic acid   Propyl paraben, sodium salt   35285-69-9   61204   NA 495   Fungicide,   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben   2307-49-5   17301   NA 151   Herbicide   Benzoic acid   Benzoica   Benzoica   Propyl paraben   2307-49-5   17301   NA 151   Herbicide   Benzoica   Benzoica   Benzoylurea   Flucycloxuron   13036-88-7   #####   NA 109   Herbicide   Benzoylurea   Flucycloxuron   101463-69-8   #####   NA 901   Insecticide   Benzoylurea				5110	Herbicide	Benzoic acid
Dichlorobenzoic acid methylester   Diethanolamine 3-amino-2,5- dichlorobenzoate   Diethanolamine 3-amino-2,5- dichlorobenzoate   Dodecylamine salicylate   7491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Fungicide, Microbiocide   Benzoic acid Microbiocide   Benzoic aci			<del></del>		Herbicide	Benzoic acid
Diethanolarmine 3-amino-2,5-   53404-16-3   29904   NA 222   Herbicide   Benzoic acid   dichlorobenzoate   Dodecylamine salicylate   7491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Propyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Methyl chloramben   7286-84-2   29905   NA 223   Herbicide   Benzoic acid   Methyl paraben   99-76-3   61201   1005   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, calcium salt   40167-95-1   61208   NA 499   Fungicide, Microbiocide   Benzoic acid   Methyl paraben, sodium salt   5026-62-0   61207   NA 498   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Methyl paraben   25182-03-0   29903   NA 221   Herbicide   Benzoic acid   Microbiocide   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben   94-13-3   61203   2841   Fungicide, Microbiocide   Benzoic acid   Propyl paraben, sodium salt   83542-69-2   61206   NA 497   Fungicide, Microbiocide   Benzoic acid   Propyl paraben, sodium salt   35285-69-9   61204   NA 495   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Propyl paraben   2307-49-5   17301   NA 151   Herbicide   Benzoic acid   Benzoic acid   Anisuron   2689-43-2   #####   NA 138   Herbicide   Benzoylurea   Flucycloxuron   13036-88-7   #####   NA 190   Insecticide   Benzoylurea   Flucycloxuron   101463-69-8   #####   NA 901   Insecticide   Benzoylurea   Flucycloxuron   101463-69-8   #####   NA 901   Insecticide   Benzoylurea   Flucycloxuron   101463-69-8   #####   NA 901   Insecticide   Benzoylurea   Flucycloxuron   101463-69-8   #####   NA 901   Insecticide   Benzoylurea   Flucycloxuron   101463-69-8   ######   NA 901   Insectic			29805	1113	Herbicide	Benzoic acid
Dodecylamine salicylate   T491-21-6   39302   2003   Insecticide, Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Microbiocide   Benzoic acid   Fungicide, Fu	methylester		NA 195	NA 194	Fungicide	Benzoic acid
Ethyl paraben   120-47-8   61202   3204   Fungicide, Microbiocide   Benzoic acid   Microbiocide   Benzoic acid   Microbiocide   Microbiocide   Benzoic acid   Microbiocide   Microbiocid	dichlorobenzoate		29904	NA 222	Herbicide	Benzoic acid
Homosalate	Ŧ				Fungicide,	Benzoic acid
Methyl chloramben 7286-84-2 29905 NA 223 Herbicide Benzoic acid Methyl paraben 99-76-3 61201 1005 Fungicide, Microbiocide Methyl paraben, calcium salt 40167-95-1 61208 NA 499 Fungicide, Microbiocide Methyl paraben, sodium salt 5026-62-0 61207 NA 498 Fungicide, Microbiocide Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid) 25182-03-0 29903 NA 221 Herbicide Benzoic acid Microbiocide Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide Propyl paraben 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 ##### NA 138 Herbicide Benzoylurea Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea Flucycloxuron 101463-69-8 ##### NA 201 Insecticide Benzoylurea Flucycloxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea			• •	3204		Benzoic acid
Methyl chloramben         7286-84-2         29905         NA 223         Herbicide         Benzoic acid           Methyl paraben         99-76-3         61201         1005         Fungicide, Microbiocide         Benzoic acid           Methyl paraben, calcium salt         40167-95-1         61208         NA 499         Fungicide, Microbiocide         Benzoic acid           Methyl paraben, sodium salt         5026-62-0         61207         NA 498         Fungicide, Microbiocide         Benzoic acid           Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)         25182-03-0         29903         NA 221         Herbicide         Benzoic acid           Propyl paraben         94-13-3         61203         2841         Fungicide, Microbiocide         Benzoic acid           Propyl paraben, calcium salt         83542-69-2         61206         NA 497         Fungicide, Microbiocide         Benzoic acid           Propyl paraben, sodium salt         35285-69-9         61204         NA 495         Fungicide, Microbiocide         Benzoic acid           Salicylic acid         69-72-7         76602         1170         Insecticide, Fungicide, Microbiocide         Benzoic acid           Sodium 3-amino-2,5-dichlorobenzoate         1954-81-0         29906         NA 224         Herbicide         Benzoic acid		118-56-9	76603	3231	Fungicide,	Benzoic acid
Methyl paraben 99-76-3 61201 1005 Fungicide, Microbiocide  Methyl paraben, calcium salt 40167-95-1 61208 NA 499 Fungicide, Microbiocide  Methyl paraben, sodium salt 5026-62-0 61207 NA 498 Fungicide, Microbiocide  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 ##### NA 151 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea		7286-84-2	29905	NA 223		Benzoic acid
Methyl paraben, calcium salt  Methyl paraben, sodium salt  Methyl paraben, sodium salt  Soze-62-0  Methyl paraben, sodium salt  Soze-62-0  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben  Propyl paraben  Propyl paraben, calcium salt  Soze-62-0  Sodium salt  Soze-62-0  Sodium 3-amino-2,5-dichlorobenzoic acid  Microbiocide  Propyl paraben, sodium salt  Soze-69-9  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben, calcium salt  Soze-69-2  Molcrobiocide  Propyl paraben, sodium salt  Soze-69-9  Molcrobiocide  Soze-69-9  Molcrobiocide  Soze-69-9  Molcrobiocide  Microbiocide  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Microbiocide  Benzoic acid  Molcrobiocide  Benzoic acid  Microbiocide  Benzoic acid  Micro		99-76-3	61201	1005	Fungicide,	
Methyl paraben, sodium salt  S026-62-0  Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben  Propyl paraben, calcium salt  S3542-69-2  Propyl paraben, sodium salt  S35285-69-9  Salicylic acid  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2307-49-5  Tricamba  2408-43-2  Tricamba  25182-03-0  Tricamba  25182			61208	NA 499	Fungicide,	Benzoic acid
Monomethylammonium chloramben (3-amino-2,5-dichlorobenzoic acid)  Propyl paraben 94-13-3 61203 2841 Fungicide, Microbiocide  Propyl paraben, calcium salt 83542-69-2 61206 NA 497 Fungicide, Microbiocide  Propyl paraben, sodium salt 35285-69-9 61204 NA 495 Fungicide, Microbiocide  Salicylic acid 69-72-7 76602 1170 Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5-dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid Anisuron 2689-43-2 ##### NA 138 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 ##### 1992 Insecticide Benzoylurea  Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea  Benzoylurea  Benzoic acid  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea			61207	NA 498	Fungicide,	Benzoic acid
Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Propyl paraben, sodium salt  35285-69-9  61204  NA 495  Fungicide, Microbiocide  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  Tricamba  2307-49-5  Diflubenzuron  2689-43-2  #####  NA 138  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoylurea  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 200  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea	chloramben (3-amino-2,5-		29903	NA 221		Benzoic acid
Propyl paraben, calcium salt  83542-69-2  61206  NA 497  Fungicide, Microbiocide  Propyl paraben, sodium salt  35285-69-9  61204  NA 495  Fungicide, Microbiocide  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Anisuron  2689-43-2  #####  NA 138  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  NA 151  Herbicide  Benzoic acid  Anisuron  13367-38-5  #####  NA 138  Herbicide  Benzoylurea  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 200  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea			61203	2841		Benzoic acid
Propyl paraben, sodium salt  Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  Tricamba  2307-49-5  Diflubenzuron  35367-38-5  Flugueicide, Microbiocide  NA 224  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  NA 151  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 200  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea		83542-69-2	61206	NA 497	Fungicide,	Benzoic acid
Salicylic acid  69-72-7  76602  1170  Insecticide, Fungicide, Microbiocide  Sodium 3-amino-2,5- dichlorobenzoate  Tricamba  2307-49-5  17301  NA 151  Herbicide  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  Benzoic acid  NA 138  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron  113036-88-7  #####  NA 109  Herbicide  Benzoylurea  Benzoylurea  Flucycloxuron, (E)  94050-52-9  NA 201  NA 200  Herbicide  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Flucycloxuron  101463-69-8  #####  NA 901  Insecticide  Benzoylurea  Benzoylurea		35285-69-9	61204	NA 495	Fungicide,	Benzoic acid
Sodium 3-amino-2,5- dichlorobenzoate  Tricamba 2307-49-5 17301 NA 151 Herbicide Benzoic acid  Anisuron 2689-43-2 ##### NA 138 Herbicide Benzoylurea  Diflubenzuron 35367-38-5 ##### 1992 Insecticide Benzoylurea  Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea  Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea  Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea  Benzoylurea	Salicylic acid	69-72-7	76602	1170	Fungicide,	Benzoic acid
Anisuron         2689-43-2         #####         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         #####         NA 901         Insecticide         Benzoylurea	dichlorobenzoate	1954-81-0	29906	NA 224		Benzoic acid
Anisuron         2689-43-2         #####         NA 138         Herbicide         Benzoylurea           Diflubenzuron         35367-38-5         #####         1992         Insecticide         Benzoylurea           Flucycloxuron         113036-88-7         #####         NA 109         Herbicide         Benzoylurea           Flucycloxuron, (E)         94050-52-9         NA 201         NA 200         Herbicide         Benzoylurea           Flufenoxuron         101463-69-8         #####         NA 901         Insecticide         Benzoylurea		2307-49-5	17301	NA 151	Herbicide	Benzoic acid
Diflubenzuron 35367-38-5 ##### 1992 Insecticide Benzoylurea Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea		2689-43-2				
Flucycloxuron 113036-88-7 ##### NA 109 Herbicide Benzoylurea Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea		35367-38-5	#####	1992		
Flucycloxuron, (E) 94050-52-9 NA 201 NA 200 Herbicide Benzoylurea Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea		113036-88-7	#####	NA 109		
Flufenoxuron 101463-69-8 ##### NA 901 Insecticide Benzoylurea		94050-52-9				
Have Green and the second seco	Flufenoxuron	101463-69-8				
THE PROPERTY OF THE PROPERTY O	Hexaflumuron	86479-06-3	#####	3899	Insecticide	Benzoylurea
Lufenuron 103055-07-8 NA 184 NA 183 Insecticide Benzoylurea	Lufenuron	103055-07-8				
Novaluron 116714-46-6 NA 226 NA 226 Herbicide Benzoylurea	Novaluron	116714-46-6				

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
Phenobenzuron	449583	#####	NA 133	Herbicide	Benzoylurea
Teflubenzuron	83121-18-0	#####	NA 33	Insecticide	Benzoylurea
Triflumuron	64628-44-0	#####	2961	Insecticide	Benzoylurea
Diethamquat chloride	NA 1567	NA 231	NA 231	Herbicide	Bipyridylium
Diquat bistribromide	27041-82-3	#####	NA 146	Herbicide	Bipyridylium
Diquat dibromide	85-00-7	32201	229	Herbicide,	Bipyridylium
D:			ļ <u> </u>	Dessicant	
Diquat ion  Monolinuron with paraquat	2764-72-9	32202	NA 294	N/A	Bipyridylium
dichloride	69312-67-0	######	NA 119	Herbicide	Urea, Bipyridylium
Morfamquat	7411-47-4	#####	NA 135	N/A	Bipyridylium
Morfamquat	7411-47-4	NA 201	NA 200	Herbicide	Bipyridylium
Morfamquat chloride	4636-83-3	NA 212	NA 212	Herbicide	Bipyridylium
Paraquat	4685-14-7	61603	NA 500	Herbicide	Bipyridylium
Paraquat bis(methylsulfate)	2074-50-2	61602	458	Herbicide	Bipyridylium
Paraquat bistribromide	27041-84-5	#####	NA 159	Herbicide	Bipyridylium
Paraquat dichloride	1910-42-5	61601	1601	Herbicide	Bipyridylium
Priglone (diquat dibromide w/paraquat ion)	78403-23-3	32203	NA 295	N/A	Bipyridylium
1,3-Dimethyl-1,1,3,3- disiloxanetetrol-1,3- bis(dimethylthiocarbamate)	22232-20-8	34601	NA 303	N/A	Bis-Carbamate
Desmedipham	13684-56-5	#####	1748	Herbicide	Die C-1
Dimethyl (4-methyl-1,3-	51543-98-7	#####	NA 888	Fungicide	Bis-Carbamate
phenylenebis(iminocarbonyl- 1H-benzimidazole-1,2- diyl))biscarbamate			1421 000	rungicide	Bis-Carbamate
Phenisopham	57375-63-0	NA 209	NA 208	Herbicide	Bis-Carbamate
Phenmedipham	13684-63-4	98701	675	Herbicide	Bis-Carbamate
Phenmedipham-ethyl	13684-44-1		NA 149	Herbicide	Bis-Carbamate
2-Hydroxy alachlor	NA 943	NA 183	2602	Breakdown product	Chloroacetanilide
Aatram (propachlor with	8070-76-6	80816	NA 781	Herbicide	Triazine,
atrazine) (019101+080803)					Chloroacetanilide
Acetochlor	34256-82-1	#####	2349	Herbicide	Chloroacetanilide
Alachlor	15972-60-8	90501	678	Herbicide	Chloroacetanilide
Butachlor	23184-66-9	######	4056	Herbicide	Chloroacetanilide
Butenachlor	87310-56-3	NA 206	NA 206	Herbicide	Chloroacetanilide
Delachlor	24353-58-0	#####	NA 132	Herbicide	Chloroacetanilide
Diethatyl-ethyl	38727-55-8	#####	1995	Herbicide	Chloroacetanilide
Dimethachlor	50563-36-5	NA 184	NA 183	Herbicide	Chloroacetanilide
Metazachlor	67129-08-2	NA 184	NA 183	Herbicide	Chloroacetanilide
Metolachlor (C)	51218-45-2	#####	1996	Herbicide	Chloroacetanilide
Metolachlor, (S)	87392-12-9	####	5133	Herbicide	Chloroacetanilide
Pretilachlor	51218-49-6	NA 184	NA 184	Herbicide	Chloroacetanilide
Propachlor	1918-16-7	19101	511	Herbicide	Chloroacetanilide
Propisochlor	86763-47-5	NA 233	NA 233	Herbicide	Chloroacetanilide
Prynachlor	21267-72-1	######	NA 138	Herbicide, Plant Growth Regulator	Chloroacetanilide
Thenylchlor	96491-05-3	NA 229	NA 229	Herbicide	Chloroacetanilide
(2-Methyl-4,6-	13333-87-4	#####	NA 161	Impurity	Chlorophenoxy acid
dichlorophenoxy)acetic acid (as impurity)				purity	or ester
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CAS Number	U.S. EPA PC		Use Type	Chemical Class
2002 64.0				
			Herbicide	Chlorophenoxy acid or ester
53404-91-4	82604	NA 820	Herbicide	Chlorophenoxy acid or ester
93-76-5	82001	639	Herbicide	Chlorophenoxy acid or ester
53535-37-8	82013	1989	Herbicide	Chlorophenoxy acid or ester
1928-47-8	82063	1092	Herbicide	Chlorophenoxy acid or ester
53535-37-8	82013	818	Herbicide	Chlorophenoxy acid or ester
2545-59-7	82053	819	Herbicide	Chlorophenoxy acid or ester, Glycol Ether
2545-59-7	82072	NA 166	Herbicide	Chlorophenoxy acid or ester
1928-48-9	82055	820	Herbicide	Chlorophenoxy acid or ester
93-79-8	82056	822	Herbicide	Chlorophenoxy acid or ester
93-80-1	#####	NA 152	Herbicide	Chlorophenoxy acid or ester
6369-97-7	82019	1474	Herbicide	Chlorophenoxy acid or ester
53404-84-5	82011	1988	Herbicide	Chlorophenoxy acid or ester
25168-15-4	NA 121	851	Herbicide	Chlorophenoxy acid or ester
53404-87-8	82029	1097	Herbicide	Chlorophenoxy acid or ester
1928-48-9	82055	824	Herbicide	Chlorophenoxy acid or ester
2008-46-0	82034	850	Herbicide	Chlorophenoxy acid or ester
69462-12-0	82064	NA 799	Herbicide	Chlorophenoxy acid or ester
53404-85-6	82012	NA 790	Herbicide	Chlorophenoxy acid or ester
120-39-8	82051	NA 795	Herbicide	Chlorophenoxy acid or ester
1928-58-1	82052	NA 796	Herbicide	Chlorophenoxy acid or ester
53404-86-7	82038	NA 793	Herbicide	Chlorophenoxy acid or ester
4938-72-1	82062	NA 798	Herbicide	Chlorophenoxy acid or ester
93-78-7	82066	NA 800	Herbicide	Chlorophenoxy acid or ester
55256-33-2	82039	NA 794	Herbicide	Chlorophenoxy acid or ester
53404-88-9	82037	NA 792	Herbicide	Chlorophenoxy acid or ester
	2903-64-2 53404-91-4 93-76-5 53535-37-8 1928-47-8 53535-37-8 2545-59-7 2545-59-7 1928-48-9 93-79-8 93-80-1 6369-97-7 53404-84-5 25168-15-4 53404-87-8 1928-48-9 2008-46-0 69462-12-0 53404-85-6 120-39-8 1928-58-1 53404-86-7 4938-72-1 93-78-7 55256-33-2	Code           2903-64-2         82603           53404-91-4         82604           93-76-5         82001           53535-37-8         82013           1928-47-8         82063           53535-37-8         82013           2545-59-7         82053           2545-59-7         82072           1928-48-9         82055           93-79-8         82056           93-80-1         #####           6369-97-7         82019           53404-84-5         82011           25168-15-4         NA 121           53404-87-8         82029           1928-48-9         82055           2008-46-0         82034           69462-12-0         82064           53404-85-6         82012           120-39-8         82051           1928-58-1         82052           53404-86-7         82038           4938-72-1         82062           93-78-7         82066           55256-33-2         82039	Code         Code           2903-64-2         82603         NA 819           53404-91-4         82604         NA 820           93-76-5         82001         639           53535-37-8         82013         1989           1928-47-8         82063         1092           53535-37-8         82013         818           2545-59-7         82053         819           2545-59-7         82072         NA 166           1928-48-9         82055         820           93-79-8         82056         822           93-80-1         #####         NA 152           6369-97-7         82019         1474           53404-84-5         82011         1988           25168-15-4         NA 121         851           53404-87-8         82029         1097           1928-48-9         82055         824           2008-46-0         82034         850           69462-12-0         82064         NA 799           53404-85-6         82012         NA 796           53404-86-7         82038         NA 793           4938-72-1         82062         NA 798           93-78-7         82066	Code         Code           2903-64-2         82603         NA 819         Herbicide           53404-91-4         82604         NA 820         Herbicide           93-76-5         82001         639         Herbicide           53535-37-8         82013         1989         Herbicide           1928-47-8         82063         1092         Herbicide           53535-37-8         82013         818         Herbicide           2545-59-7         82053         819         Herbicide           2545-59-7         82072         NA 166         Herbicide           1928-48-9         82055         820         Herbicide           93-79-8         82056         822         Herbicide           93-80-1         #####         NA 152         Herbicide           53404-84-5         82011         1988         Herbicide           25168-15-4         NA 121         851         Herbicide           53404-87-8         82029         1097         Herbicide           1928-48-9         82055         824         Herbicide           53404-85-6         82012         NA 799         Herbicide           53404-85-6         82012         NA 790

Chemical Name	0107	T		r	
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		<u>Use Type</u>	Chemical Class
2,4,5-trichlorophenoxyacetic	53404-89-0	Code	Code		
acid, N,N-dimethyloleylamine	33404-89-0	82020	NA 791	. Herbicide	Chlorophenoxy acid
salt				•	or ester
2,4,5-trichlorophenoxyacetic	55491-33-3	82077	274 000		
acid, pentyl ester	33491-33-3	82077	NA 803	Herbicide	Chlorophenoxy acid
2,4,5-trichlorophenoxyacetic	13560-99-1	92004	274 700		or ester
acid, sodium salt	13300-99-1	82004	NA 789	Herbicide	Chlorophenoxy acid
2,4,5-trichlorophenoxyacetic	53535-32-3	82075	274 000		or ester
acid, tripropylene glycol	33333-32-3	82075	NA 802	Herbicide	Chlorophenoxy acid
isobutyl ether ester			ł	,	or ester
2.4-D	94-75-7	30001	636	77 1	
_,	54-75-7	30001	030	Herbicide,	Chlorophenoxy acid
			i	Plant Growth	or ester
2,4-D with 2,4,5-T	8015-35-8	30077	NA 259	Regulator	611
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0015-55-0	30077	NA 239	Herbicide	Chlorophenoxy acid
2,4-D, 2-ethyl-4-methylpentyl	53404-37-8	NA 227	NA 227	Herbicide	or ester
ester	33101-37-0	NA ZZ/	NA 227	Heroicide	Chlorophenoxy acid
2,4-D, 2-ethylhexyl ester	1928-43-4	30063	1622	Herbicide	or ester
, , , , , , , , , , , , , , , , , , , ,	1020 15 1	50005	1022	neroicide	Chlorophenoxy acid
2,4-D, alkanolamine salts	2307-55-3	30005	801	Herbicide	or ester
(ethanol and isopropanol		30003	801	nerbicide	Chlorophenoxy acid
amines)					or ester
2,4-D, alkyl (C12) amine salts	2212-54-6	30011	980	Herbicide	Ohl 1
		50011	.580	Herbicide	Chlorophenoxy acid
2,4-D, alkyl (C14) amine salts	28685-18-9	30013	981	Herbicide	or ester
		50015	761	Heroicide	Chlorophenoxy acid
2,4-D, butoxy ethoxy propanol	1928-57-0	30052	1255	Herbicide	or ester
ester		55052	1233	Heroteide	Chlorophenoxy acid
2,4-D, butoxyethanol ester	1929-73-3	30053	802	Herbicide	or ester Chlorophenoxy acid
			002	TICIDICIGO	or ester, Glycol Ether
2,4-D, butoxyethanol ester	1929-73-3	30061	NA 166	Herbicide	Chlorophenoxy acid
				1101010100	or ester
2,4-D, butoxypropyl ester	1928-45-6	30055	803	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, butyl ester	94-80-4	30056	804	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, chlorocrotyl ester	2971-38-2	NA 228	NA 227	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, diethanolamine salt	5742-19-8	30016	805	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, diethylamine salt	20940-37-8	30017	875	Herbicide	Chlorophenoxy acid
645					or ester
2,4-D, dimethylamine salt	2008-39-1	30019	806	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, dodecylamine salt	2212-54-6	30011	807	Herbicide	Chlorophenoxy acid
					or ester
2,4-D, heptylamine salt	37102-63-9	30023	1962	Herbicide	Chlorophenoxy acid
242					or ester
2,4-D, isooctyl ester	25168-26-7	30064	809	Herbicide	Chlorophenoxy acid
					or ester
Triclopyr	55335-06-3	#####	NA 36	Herbicide	Chloropyridinyl
Triclopyr ethyl ester	60825-27-6	######	NA 108	Herbicide	Chloropyridinyl
Triclopyr, butoxyethyl ester	64700-56-7	#####	2170	Herbicide	Chloropyridinyl,
					Glycol Ether
Triclopyr, triethylamine salt	57213-69-1	#####	2131	Herbicide	Chloropyridinyl
Alloxydim	55634-91-8	NA 203	NA 203	Herbicide	Cyclohexenone
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Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chemical Class
					derivative
Alloxydim sodium	55635-13-7	#####	NA 926	Herbicide	Cyclohexenone derivative
Butroxydim	138164-12-2	NA 202	NA 202	Herbicide	Cyclohexenone derivative
Clethodim	99129-21-2	#####	3566	Herbicide	Cyclohexenone derivative
Cloproxydim	95480-33-4	NA 231	NA 231	Herbicide	Cyclohexenone derivative
Cycloxydim	101205-02-1	NA 184	NA 183	Herbicide	Cyclohexenone derivative
Sethoxydim	74051-80-2	######	2177	Herbicide	Cyclohexenone derivative
Tepraloxydim	149979-41-9	#####	NA 982	Herbicide	Cyclohexenone derivative
Tralkoxydim	87820-88-0	######	5457	Herbicide	Cyclohexenone derivative
2,4-dinitrophenol	51-28-5	37509	221	Impurity	Dinitrophenol derivative
2,4-dinitrophenol, sodium salt (as impurity)	1011-73-0	#####	NA 161	Impurity, Breakdown product	Dinitrophenol derivative
2,4-Dinitrophenyl thiocyanate	1594-56-5	<del>######</del>	NA 146	N/A	Dinitrophenol derivative
2,6-dinitrophenol, sodium salt (as impurity)	32581-06-9	######	NA 161	Impurity	Dinitrophenol derivative
2-Cyclohexyl-4,6-dinitrophenol dicyclohexylamine	317-83-9	37502	NA 316	N/A	Dinitrophenol derivative
3,3'-Dichloro-5,5'-dinitro-(1,1'-biphenyl)-2,2'-diol	15595-24-1	#####	NA 137	N/A	Dinitrophenol derivative
3,3'-Dichloro-5,5'-dinitro-(1,1'-biphenyl)-2,2'-diol	63992-31-4	#####	NA 137	N/A	Dinitrophenol derivative
4,6-Dinitro-2- cyclohexylphenol, 2-((2- aminoethyl)amino)ethanol salt	69632-97-9	#####	NA 145	N/A	Dinitrophenol derivative
4,6-Dinitro-2- cyclohexylphenol, triethanolamine salt	69632-98-0	#####	NA 145	N/A	Dinitrophenol derivative
5,5'-Dichloro-3,3'-dinitro-(1,1'- biphenyl)-2,2'-diol	10331-57-4	#####	NA 137	N/A	Dinitrophenol derivative
6,6'-Dichloro-4,4'-dinitro-(1,1'- biphenyl)-2,2'-diol	21832-25-7	######	NA 137	N/A	Dinitrophenol derivative
Binapacryl	485-31-4	12201	73	Herbicide	Dinitrophenol derivative
Diethanolamine dinoseb (2-sec-butyl-4,6-dinitrophenol)	53404-43-6	37514	NA 320	Herbicide	Dinitrophenol derivative
Dinex	131-89-5	37501	NA 315	N/A	Dinitrophenol derivative
Dinitro cresol	534-52-1	37507	3170	Fungicide	Dinitrophenol
Dinitro-1-methyl heptyl phenol	NA 159	NA 302	758	N/A	derivative Dinitrophenol
Dinitrophenol (mixed isomers)	25550-58-7	NA 223	NA 223	Breakdown product, Impurity	derivative Dinitrophenol derivative
Dinobuton	973-21-7	#####	2526	Insecticide,	Dinitrophenol

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u>Orio rvaniou</u>	Code	Code	OSC TYPE	Chemical Class
				Fungicide	derivative
Dinocap	39300-45-3	36001	344	Fungicide,	Dinitrophenol
				Insecticide	derivative
Dinocap, other related	NA 1091	NA 162	90344	Insecticide,	Dinitrophenol
.,				Fungicide	derivative
Dinocton	32534-96-6	NA 207	NA 206	Insecticide,	Dinitrophenol
				Fungicide	derivative
Dinofenate	61614-62-8	#####	NA 146	Herbicide	Dinitrophenol
					derivative
Dinopenton	5386-57-2	#####	NA 154	N/A	Dinitrophenol
					derivative
Dinoprop	7257-41-2	######	NA 138	N/A	Dinitrophenol
					derivative
Dinosam	4097-36-3	37504	NA 318	N/A	Dinitrophenol ·
- D: 1	00.00.0	2555			derivative
Dinoseb	88-85-7	37505	238	Herbicide,	Dinitrophenol
Dinoseb acetate	2012 05 0	274 007	274 006	Defoliant	derivative
Dinoseo acetate	2813-95-8	NA 207	NA 206	Herbicide	Dinitrophenol
Dinoseb, amine salt	2244387	37511	220	YY. 1.1.1	derivative
Dinoses, anime sait	2244361	3/311	239	Herbicide, Defoliant	Dinitrophenol
Dinoseb, ammonium salt	6365-83-9	37513	240		derivative
Binosco, animomum sait	0303-63-9	. 3/313	240	Herbicide, Defoliant	Dinitrophenol
Dinoseb, sodium salt	35040-03-0	37512	1445	Herbicide,	derivative
2 mosos, souram suit	33040-03-0	3/312	1445	Defoliant	Dinitrophenol derivative
Dinoseb, triethanolamine salt	6420-47-9	37506	235	Herbicide,	Dinitrophenol
			1	Defoliant	derivative
Dinosulfon	5386-77-6	#####	NA 157	N/A	Dinitrophenol
					derivative
Dinoterb	1420-07-1	#####	NA 128	Herbicide	Dinitrophenol
					derivative
Dinoterbon	6073-72-9	#####	NA 128	Herbicide	Dinitrophenol
					derivative
DNOC, sodium salt	2312-76-7	37508	533	Fungicide,	Dinitrophenol
				Microbiocide,	derivative
•				Insecticide,	
Etinofen	2544.04.7		371 145	Herbicide	
Eunoien	2544-94-7	#####	NA 147	N/A	Dinitrophenol
Medinoterb acetate	212943	NA 208	NA 208	Herbicide	derivative
Wiedmotero acctate	212943	NA 200	NA 208	Herbicide	Dinitrophenol
Methyl 2-(1-methylheptyl)-4,6-	5386-68-5	#####	NA 157	N/A	derivative
dinitrophenyl carbonate	3500-00-5	""""	NA 15/	19/74	Dinitrophenol derivative
Premerge plus (naptalam with	8075-57-8	30704	NA 278	Herbicide	Dinitrophenol
dinoseb)		]	1412/0	1101010100	derivative
Sodium naptalam with sodium	59915-53-6	30705	NA 279	Herbicide	Dinitrophenol
dinoseb					derivative
Sultropen	963-22-4	#####	NA 146	N/A	Dinitrophenol
					derivative
Acifluorfen	50594-66-6	#####	NA 935	Herbicide	Diphenyl ether
Acifluorfen, sodium salt	62476-59-9	#####	2218	Herbicide	Diphenyl ether
Aclonifen	74070-46-5	NA 187	NA 187	Herbicide	Diphenyl ether
Bifenox	42576-02-3	#####	1953	Herbicide	Diphenyl ether
Chlomethoxyfen	32861-85-1	NA 185	NA 185	Herbicide	Diphenyl ether
Diofenolan	63837-33-2	7703	NA 101	Herbicide	Diphenyl ether
Ethyl acifluorfen	77207-01-3	#####	NA 936	Herbicide	Diphenyl ether
			,		2 iphonyi cuici

Chemical Name	CAS Number	ILO EDA DO	CA Ch	77 (7)	1
Chemical Ivane	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Fluoroglycofen	77501-60-1	Code	Code		
Fomesafen		NA 181	NA 180	Herbicide	Diphenyl ether
Fomesafen sodium	72178-02-0	#####	NA 17	Herbicide	Diphenyl ether
	108731-70-0	#####	5086	Herbicide	Diphenyl ether
Lactofen	77501-63-4	#####	3538	Herbicide	Diphenyl ether
Methyl acifluorfen	50594-67-7	######	NA 937	Herbicide	Diphenyl ether
Oxyfluorfen	42874-03-3	######	1973	Herbicide	Diphenyl ether
Bromobonil	25671-46-9	#####	NA 134	Herbicide	Hydroxybenzonitrile
Bromoxynil butyrate	3861-41-4	35303	2163	Herbicide	Hydroxybenzonitrile
Bromoxynil heptanoate	56634-95-8	#####	5036	Herbicide	Hydroxybenzonitrile
Bromoxynil octanoate	1689-99-2	35302	834	Herbicide	Hydroxybenzonitrile
Bromoxynil pentanoate	NA 1476	NA 220	NA 219	Herbicide	Hydroxybenzonitrile
Bromoxynil phenol	1689-84-5	35301	2429	Herbicide	Hydroxybenzonitrile
Chloroxynil	1891-95-8	#####	NA 138	Herbicide	
Ioxynil	1689-83-4	#####	2616	Herbicide	Hydroxybenzonitrile
Ioxynil lithium	2961-61-7	#####	NA 141	Herbicide	Hydroxybenzonitrile
. Ioxynil octanoate	3861-47-0	#####			Hydroxybenzonitrile
Ioxynil sodium	2961-62-8	#####	NA 141	Herbicide	Hydroxybenzonitrile
3-5-(1,1-Dimethylethyl)-3-	78327-32-9		NA 141	Herbicide	Hydroxybenzonitrile
isoxazolyl-4-hydroxy-1-	10321-32-9	#####	NA 108	Algaecide	Imidazolinone
methyl-2-imidazolidinone	,				
3-Pyridinecarboxylic acid, 2-	81334-60-3	#####	374.4		
(4,5-dihydro-4-methyl-4-(1-	01334-00-3	<del>1/1/1/1/1/</del>	NA 1	Herbicide	Imidazolinone
methylethyl)-5-oxo-1H-					
imidazol-2-yl)-5-methyl-, (.+-					
)-			ŀ		
Imazamethabenz	81405-85-8	#####	2240	** 1	
Imazamox	114311-32-9	#####		Herbicide	Imidazolinone
Imazapic	104098-48-8		NA 2	Herbicide	Imidazolinone
Imazapyr		NA 212	NA 211	Herbicide	Imidazolinone
Imazapyr, isopropylamine salt	81334-34-1	#####	2256	Herbicide	Imidazolinone
Imazapyi, isopropyianine sait	81510-83-0	#####	2257	Herbicide	Imidazolinone
mazaquin	81335-37-7	<del>#####</del>	2613	Herbicide,	Imidazolinone
			j	Plant Growth	
Imazaquin, ammonium salt	01225 45 0			Regulator	
Imazaquin, sodium salt	81335-47-9	#####	3006	Herbicide	Imidazolinone
	81335-46-8	#####	5109	Herbicide	Imidazolinone
Imazethapyr	81335-77-5	#####	2340	Herbicide,	Imidazolinone
			İ	Plant Growth	
T	10101-1-1-			Regulator	
Imazethapyr, ammonium salt	101917-66-2	#####	2341	Herbicide	Imidazolinone
Pyridine carboxylic acid, 2-	104098-49-9	<del>#####</del>	5097	Herbicide	Imidazolinone
(4,5-dihydro-4-methyl-4-(1-					
methylethyl)-5-oxo-1H-			l		
imidazol-2-yl)-5-methyl, monoammonium salt					
	20502 50 5				
Chloreturon	20782-58-5	NA 231	NA 230	Herbicide	Phenylurea
Daimuron	42609-52-9	NA 204	NA 204	Herbicide	Phenylurea
Fluothiuron	33439-45-1	NA 232	NA 232	Herbicide	Phenylurea
Methyldymron	42609-73-4	NA 205	NA 204	Herbicide	Phenylurea
Tetrafluoron	27954-37-6	#####	NA 145	Herbicide	Phenylurea
Bilanafos	71048-99-2	NA 202	NA 201	Herbicide	Phosphinico amino
					acid
Ampropylofos	16606-64-7	NA 181	NA 180	Fungicide	Phosphonic acid
Glyphosate	1071-83-6	#####	2997	Herbicide	Phosphonoglycine
Glyphosate, ammonium salt	114370-14-8	NA 228	2319	Herbicide	Phosphonoglycine
				1101010100	r noshnonogracine

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	<u> </u>	Code	Code	OSC TYPE	Chemical Class
Glyphosate, diammonium salt	NA 1566	NA 229	5810	Herbicide	Phosphonoglycine
Glyphosate, isopropylamine	38641-94-0	. #####	1855	Herbicide	Phosphonoglycine
salt					
Glyphosate, monoammonium salt	114370-14-8	#####	2301	Herbicide	Phosphonoglycine
Glyphosate, sodium sesqui salt	70393-85-0	#####	2275	Herbicide	Phosphonoglycine
Glyphosate-trimesium	81591-81-3	#####	2327	Herbicide	Phosphonoglycine
N,N-	2439-99-8	#####	NA 884	Herbicide	Phosphonoglycine
Bis(phosphonomethyl)glycine	1604.04.0				
6-chloropicolinic acid	4684-94-0	69206	NA 657	Herbicide	Pyridinecarboxylic acid
Clopyralid	1702-17-6	#####	5135	Herbicide	Pyridinecarboxylic acid
Clopyralid copper	NA 1458	NA 216	NA 216	· Herbicide	Pyridinecarboxylic acid
Clopyralid, monoethanolamine salt	57754-85-5	#####	5050	Herbicide	Pyridinecarboxylic
Clopyralid, triethylamine salt	NA 955	#####	2220	TT1:11	acid
			2339	Herbicide	Pyridinecarboxylic acid
Picloram	5145	5101	593	Herbicide	Pyridinecarboxylic acid
Picloram, alkanolamine salt	NA 1479	NA 220	NA 219	Herbicide	Pyridinecarboxylic ·
Picloram, diethanolamine salt	5145	NT 1 000	221 222		acid
	5145	NA 220	NA 220	Herbicide	Pyridinecarboxylic acid
Picloram, isooctyl ester	26952-20-5	5103	835	Herbicide	Pyridinecarboxylic acid
Picloram, potassium salt	2545-60-0	5104	5330	Herbicide	Pyridinecarboxylic acid
Picloram, triethylamine salt	35832-11-2	5105	NA 77	Herbicide	Pyridinecarboxylic acid
Picloram, triisopropanolamine	6753-47-5	5102	1099	Herbicide	Pyridinecarboxylic
salt					acid
Picolinafen	137641-05-5	NA 210	NA 210	Herbicide	Pyridinecarboxylic acid
Thiazopyr	117718-60-2	#####	3984	Herbicide	Pyridinecarboxylic acid
Amidosulfuron	120923-37-7	NA 183	NA 183	Herbicide	Sulfonylurea
Azimsulfuron	120162-55-2	#####	NA 112	Herbicide	Sulfonylurea
Bensulfuron	99283-01-9	NA 181	NA 180	Herbicide	Sulfonylurea
Bensulfuron methyl	83055-99-6	#####	2263	Herbicide	Sulfonylurea
Chlorimuron	99283-00-8	NA 204	NA 203	Herbicide	Sulfonylurea
Chlorimuron ethyl	90982-32-4	#####	2458	Herbicide	Sulfonylurea
Chlorsulfuron	64902-72-3	######	2143	Herbicide	Sulfonylurea
Cinosulfuron	94593-91-6	NA 183	NA 183	Herbicide	Sulfonylurea
Cyclosulfamuron	136849-15-5	NA 204	NA 203	Herbicide	Sulfonylurea
Ethametsulfuron	111353-84-5	NA 212	NA 212	Herbicide	Sulfonylurea
Ethametsulfuron-methyl	97780-06-8	#####	NA 43	Herbicide	Sulfonylurea
Ethoxysulfuron	126801-58-9	NA 226	NA 225	Herbicide	Sulfonylurea
Flazasulfuron	104040-78-0	NA 229	NA 228	Herbicide	Sulfonylurea
Flupyrsulfuron	150315-10-9	NA 205	NA 204	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl	NA 1460	NA 216	NA 216	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl, sodium salt	144740-54-5	NA 218	NA 217	Herbicide	Sulfonylurea
Halosulfuron	100784-20-1	#####	3919	Herbicide	Sulfonylurea

Chemical Name	CAS Number	II C EDA DO	ICA CI	<del></del>	
<u>Chomical Ivanic</u>	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Imazosulfuron	122548-33-8	NA 229	<u>Code</u> NA 229	77 1	
Iodosulfuron methyl	185119-76-0	NA 212	NA 211	Herbicide	Sulfonylurea
Iodosulfuron methyl, sodium	144550-36-7	NA 212	NA 211	Herbicide	Sulfonylurea
salt	111330-30-7	NA 212	IVA 211	Herbicide	Sulfonylurea
Mesosulfuron-methyl	208465-21-8	#####	NA 993	Herbicide	Culc t
Metsulfuron	5585-64-8	NA 183	NA 182	Herbicide	Sulfonylurea
Metsulfuron-methyl	74223-64-6	#####	2222	Herbicide	Sulfonylurea
Nicosulfuron	111991-09-4	#####	3829	Herbicide	Sulfonylurea
Oxasulfuron	144651-06-9	#####	NA 991	Herbicide	Sulfonylurea
Primisulfuron-methyl	86209-51-0	· #####	5103	Herbicide	Sulfonylurea
Prosulfuron	94125-34-5	#####	5115	Herbicide	Sulfonylurea
Pyrazosulfuron	98389-04-9	NA 205	NA 205	Herbicide	Sulfonylurea
Pyrazosulfuron-ethyl	93697-74-6	NA 218	NA 217	Herbicide	Sulfonylurea
Rimsulfuron	122931-48-0	#####	3835	Herbicide	Sulfonylurea
Sulfometuron	74223-56-6	NA 206	NA 205	Herbicide	Sulfonylurea
Sulfometuron methyl	74222-97-2	#####	2149	Herbicide	Sulfonylurea
Sulfosulfuron	141776-32-1	85601	5136	Herbicide	Sulfonylurea
Thifensulfuron	79277-67-1	NA 183	NA 182	Herbicide	Sulfonylurea
Thifensulfuron-methyl	79277-27-3	#####	2237	Herbicide	Sulfonylurea
Triasulfuron	82097-50-5	#####	5100	Herbicide	Sulfonylurea
Tribenuron	106040-48-6	NA 206	NA 205	Herbicide	Sulfonylurea
Tribenuron methyl	101200-48-0	#####	2338	Herbicide	Sulfonylurea
Triflusulfuron-methyl	126535-15-7	#####	3875	Herbicide	Sulfonylurea
Tritosulfuron	142469-14-5	NA 234	NA 234	Herbicide	Sulfonylurea Sulfonylurea
Butylate	2008-41-5	41405	565	Herbicide	Thiocarbamate
Calcium thylenebis	5895-18-1	14501	NA 139	Microbiocide	Dithiocarbamate
(dithiocarbamate)			- 1 2.5.5	14HC10010CIGC	Diditocarbamate
Cufraneb	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Cycloate	1134-23-2	41301	516	Herbicide	Thiocarbamate
Diammonium	607313	14502 ·	NA 140	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)					- I and our burnage
Dimepiperate	61432-55-1	NA 186	NA 185	Herbicide	Thiocarbamate
EPTC	759-94-4	41401	264	Herbicide	Thiocarbamate
Esprocarb	85785-20-2	NA 203	NA 202	Herbicide	Thiocarbamate
Ethiolate	2941-55-1	##### .	1793	Herbicide	Thiocarbamate
Fenothiocarb	62850-32-2	NA 188	NA 187	Insecticide	Thiocarbamate
Ferbam	14484-64-1	34801	288	Fungicide	Dithiocarbamate
Ferric nitroso dimethyl dithiocarbamate	83542-83-0	#####	NA 149	Microbiocide	Dithiocarbamate
Furathiocarb	65007.20.4				
Isopolinate	65907-30-4	NA 176	NA 52	Insecticide	Thiocarbamate
Mancopper	3134-70-1	NA 232	NA 232	Herbicide	Thiocarbamate
Mancozeb	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Waneozeb	2233100	14504	211	Fungicide	Dithiocarbamate,
Maneb	12427-38-2	14505	260		Inorganic-Zinc
Maneb and nickel sulfate	8005-46-7		369	Fungicide	Dithiocarbamate
hexahydrate (014505 +	0003-40-/	#####	NA 158	Fungicide	Dithiocarbamate,
050505)					Inorganic-Nickel
Manganous	15339-36-3	34802	NA 304	Fyngieide	Duti
dimethyldithiocarbamate			-12.504	Fungicide	Dithiocarbamate
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury,
dithiocarbamate					Heavy metal,
200					Dithiocarbamate
Metam sodium, dihydrate	137-42-8	39003	NA 163	Fumigant,	Dithiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	2332775	Oncimear Class
				Fungicide,	
		<b> </b> .		Microbiocide,	
				Algaecide,	
Metam-sodium	(724 00 1	20000		Nematicide	
Wetam-sodium	6734-80-1	39003	616	Fumigant,	Dithiocarbamate
				Herbicide,	
:				Fungicide, Microbiocide,	
				Algaecide,	
				Nematicide	
Methasulfocarb	66952-49-6	NA 202	NA 201	Fungicide,	Thiocarbamate
,				Plant Growth	
				Regulator	
Methiobencarb	18357-78-3	NA 232	NA 232	Herbicide	Thiocarbamate
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
Malimata	2010 67.1	44.400			Inorganic-Zinc
Molinate  Molinate sulfoxide	2212-67-1	41402	449	Herbicide	Thiocarbamate
iviolinate surfoxide	NA 1052	NA 156	4080	Breakdown	Thiocarbamate
Morpholinomethyl	31848-11-0	<del>                                      </del>	NA 158	product	70.01
dimethyldithiocarbamate	31646-11-0	<del>"""""</del>	1NA 158	Microbiocide	Dithiocarbamate
Nabam	142-59-6	14503	417	Fungicide,	Dithiocarbamate
•		1.505	11.	Herbicide	Dimocarbamate
Orbencarb	34622-58-7	NA 189	NA 188	Herbicide	Thiocarbamate
Pebulate	1114-71-2	41403	590	Herbicide	Thiocarbamate
Phenylmercuric	32407-99-1	66008	NA 555	Microbiocide,	Organomercury,
dimethyldithiocarbamate				Fungicide	Dithiocarbamate,
					Heavy metal
Potassium ammonium ethylenebis(dithiocarbamate)	22221-14-3	14507	NA 141	Microbiocide	Dithiocarbamate
Potassium dimethyl dithio	128-03-0	34803	1934	Missalia	70:11: 1
carbamate	120-05-0	34603	1954	Microbiocide	Dithiocarbamate
Potassium N-hydroxymethyl-	51026-28-9	#####	1824	N/A	Dithiocarbamate
N-methyldithio carbamate			1021	. 14/21	Dimocardaniale
Potassium N-methyldithio	137-41-7	39002	970	Fumigant,	Dithiocarbamate
carbamate				, Fungicide,	
				Microbiocide,	
				Algaecide,	
Propineb	12071 02 0		371.455	Nematicide	
Tropined	12071-83-9	#####	NA 155	Fungicide,	Dithiocarbamate,
Prosulfocarb	52888-80-9	NA 185	NA 184	Microbiocide Herbicide	Inorganic-Zinc
Prothiocarb	19622-08-3	NA 183	NA 182	Fungicide	Thiocarbamate
Prothiocarb hydrochloride	19622-19-6	NA 200	NA 199	Fungicide Fungicide	Thiocarbamate
Pyributicarb	88678-67-5	NA 229	NA 229	Herbicide	Thiocarbamate Thiocarbamate
S-tert-Butyl	2212-63-7	#######	NA 128	Herbicide	Thiocarbamate  Thiocarbamate
dipropylthiocarbamate			1.1.120	TOTOTOTAL	i mocai paillate
Sodium dimethyl dithio	128-04-1	34804	548	Fungicide	Dithiocarbamate
carbamate				-8	
Sulfallate	95-06-7	39001	115	Herbicide	Dithiocarbamate
Tert-butyl dimethyl trithio	3304-97-0	34807	1383	Rodent	Dithiocarbamate
peroxycarbamate				Repellent	
Tert-	NA 1130	NA 166	91383	N/A	Dithiocarbamate
butyldimethyltrithioperoxycarb amate, other related		İ			
Thiobencarb	28249-77-6	#####	1022	TT- 1 · · · 1	
	202-7-11-0	THE PROPERTY OF THE PROPERTY O	1933	Herbicide	Thiocarbamate

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Ol
		Code	Code	OSC Type	Chemical Class
Thiobencarb sulfoxide	NA 1042	NA 139	2937	Breakdown product	Thiocarbamate
Thiodicarb	59669-26-0	######	2202	Molluscicide, Insecticide	Thiocarbamate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and 2-methyl-1-naphthaleneacetamide and 2-methyl-1-naphthaleneacetic acid	75497-92-6	56011	NA 463	Fungicide, Plant Growth Regulator	Dithiocarbamate
Tiocarbazil	36756-79-3	######	NA 911	Herbicide	Thiocarbamate
Triallate	2303-17-5	78802	49	Herbicide	Thiocarbamate
Tricopper dichloride dimethyldithiocarbamate	7076-63-3	. <del>////////</del>	NA 152	Microbiocide	Dithiocarbamate, Inorganic-Copper
Vernolate	1929-77-7	41404	1987	Herbicide	Thiocarbamate
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate, Inorganic-Zinc
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate, Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide, Microbiocide, Dog and Cat Repellent	Dithiocarbamate, Inorganic-Zinc
Ziram, cyclohexylamine complex	16509-79-8	34806	1328	Dog and Cat Repellent, Fungicide	Dithiocarbamate, Inorganic-Zinc
1,3,5-Triethylhexahydro-s- triazine	7779-27-3	82901	NA 823	Fungicide	Triazine
2-(Diethylamino)-4- (isopropylamino)-6-methoxy-s- triazine	3004-70-4	80812	NA 780	N/A	Triazine
2-chloro-4- ((hydroxymethyl)amino)-6- (isopropylamino)-s-triazine	29450-57-5	#####	NA 135	N/A	Triazine
3-(chloromethyl)-4-ketobenz- 1,2,3-triazine (as impurity)	24310-41-6	#####	NA 162	Impurity	Triazine
3-(Hydroxymethyl)-4- ketobenz-1,2,3-triazine (as impurity)	24310-40-5	######	NA 162	Impurity	Triazine
Aatram (propachlor with atrazine) (019101+080803)	8070-76-6	80816	NA 781	Herbicide	Triazine, Chloroacetanilide
Ametryne	834-12-8	80801	18	Herbicide	Triazine
Ametryne, other related	NA 1071	NA 160	90018	Herbicide	Triazine
Anilazine	101-05-3	80811	256	Fungicide	Triazine
Atraton	1610-17-9	80802	4050	Herbicide	Triazine
Atrazine	1912-24-9	80803	45	Herbicide	Triazine
Atrazine dealkylated	NA 1059	NA 157	4052	Breakdown product	Triazine
Atrazine, other related	NA 1072	NA 160	90045	Herbicide	Triazine
Aziprotryne	4658-28-0	#####	NA 130	Herbicide	Triazine
Chlorazine	580-48-3	80806	NA 777	N/A	Triazine
Cyanatryn	21689-84-9	NA 230	NA 229	Herbicide	Triazine
Cyanazine	21725-46-2	#####	1640	Herbicide	Triazine
Cyanazine acid	NA 1328	NA 178	NA 178	Breakdown product	Triazine
Cyanazine amide	NA 1170	NA 176	NA 164	Breakdown	Triazine

Code Code Code Code Code Code Code Code	Chemical Name	CAS Number	U.S. EPA PC	ICA Chem	Use Type	Chaminal Class
Cyanazine, other related		<u>Ozno i tumbor</u>			OSC TYPE	Chemical Class
Cyanazine, other related         NA 1133         NA 166         91640         Herbicide Water Triazine           Cyanuric acid         108-80-5         81402         2138         Microbiocide, Water Triazine           Cyanuric acid, monosodium salt         2624-17-1         NA 122         1031         Microbiocide, Water Treatment           Cybutryne         28159-98-0         #####         4033         Microbiocide, Water Treatment           Cyprazine         22936-86-3         #####         1701         Herbicide Triazine           Cyromazine         66215-27-8         #####         1701         Herbicide Triazine           Deethyl ametryne         NA 1168         NA 176         NA 164         Breakdown product         Triazine           Deethyl hydroxyatrazine         NA 1330         NA 179         NA 178         Breakdown product         Triazine           Deethyl-simazine         NA 1047         NA 154         4096         Breakdown product         Triazine           Deisopropyl atrazine         NA 169         NA 176         NA 164         Breakdown product         Triazine           Deisopropyl hydroxyatrazine         NA 1331         NA 179         NA 178         Breakdown product           Deisopropyl hydroxyatrazine         NA 1331         NA 179					product	
Cyanuric acid	Cyanazine, other related	NA 1133	NA 166	91640		Triozina
Cyanuric acid, monosodium   2624-17-1   NA 122   1031   Microbiocide, Water Treatment Water   Treatment Water   Treatment   Cybutryne   28159-98-0   #####   4033   Microbiocide   Triazine   Cyprazine   22936-86-3   #####   1701   Herbicide   Triazine   Cyromazine   66215-27-8   #####   2286   Insecticide   Triazine   Cyromazine   66215-27-8   #####   2286   Insecticide   Triazine   Triazine   Deethyl ametryne   NA 1168   NA 176   NA 164   Breakdown   Triazine   Deethyl hydroxyatrazine   NA 1330   NA 179   NA 178   Breakdown   Triazine   Deethyl-atrazine   NA 1058   NA 157   4051   Breakdown   Triazine   Deethyl-atrazine   NA 1047   NA 154   4096   Breakdown   Triazine   Deethylhydroxysimazine   NA 1047   NA 154   4096   Breakdown   Triazine   Deisopropyl atrazine   NA 1169   NA 176   NA 164   Breakdown   Triazine   Deisopropyl hydroxyatrazine   NA 1169   NA 176   NA 164   Breakdown   Triazine   Deisopropyl hydroxyatrazine   NA 1331   NA 179   NA 178   Breakdown   Triazine   Deisopropyl prometryn   NA 1334   NA 179   NA 178   Breakdown   Triazine   Desmetryne   1014-69-3   80810   NA 779   Breakdown   Triazine   Diamino-hotrotriazine   NA 856   NA 159   5032   Breakdown   Triazine   Diaminohydroxytriazine   NA 857   NA 159   5032   Breakdown   Triazine   Diaminohydroxytriazine   NA 857   NA 159   5032   Breakdown   Triazine   Dichloro-s-triazinetrione   2782-57-2   81401   204   Microbiocide,   Water   Treatment   Didealkyl atrazine   NA 1332   NA 179   NA 178   Breakdown   Triazine   Dichloro-s-triazinetrione   NA 1332   NA 179   NA 178   Breakdown   Triazine   Didealkyl hydroxyatrazine   NA 1332   NA 179   NA 178   Breakdown   Triazine   Dichloro-seamino-metribuzin   NA 1474   NA 219   NA 219   Breakdown   Triazine   Didealkyl hydroxyatrazine   NA 1475   NA 219   NA 219   Breakdown   Triazine   Didealkyl hydroxyatrazine   NA 1475   NA 219   NA 219   Breakdown   Triazine   Dimethametryn   22936-75-0   80815   2287   Herbicide   Triazine   Dimethametryn   22936-75-0   80815   2287   Herbicide   Triazine   Dime						
Cyanuric acid, monosodium salt         2624-17-1         NA 122         1031         Microbiccide, Water Treatment Tr						HIAZIIIE
Salt						
Salt	Cyanuric acid, monosodium	2624-17-1	NA 122	1031	Microbiocide,	Triazine
Cybutryne         28159-98-0         #####         4033         Microbiocide         Triazine           Cyprazine         22936-86-3         #####         1701         Herbicide         Triazine           Cypromazine         66215-27-8         #####         1286         Insecticide         Triazine           Deethyl ametryne         NA 1168         NA 176         NA 164         Breakdown product         Triazine           Deethyl hydroxyatrazine         NA 1030         NA 177         4051         Breakdown product         Triazine           Deethyl-simazine         NA 1047         NA 154         4096         Breakdown product         Triazine           Deethylhydroxysimazine         NA 1064         NA 159         5031         Breakdown product         Triazine           Deisopropyl strazine         NA 1169         NA 176         NA 164         Breakdown product         Triazine           Deisopropyl hydroxyatrazine         NA 1331         NA 179         NA 178         Breakdown product         Triazine           Deisopropyl prometryn         NA 1473         NA 179         NA 179         Breakdown product         Triazine           Desmetryne         1014-69-3         80810         NA 779         Herbicide         Triazine	salt					
Cyprazine         22936-86-3         #####         1701         Herbicide         Triazine           Cyromazine         66215-27-8         #####         2286         Insecticide         Triazine           Deethyl ametryne         NA 1168         NA 176         NA 164         Breakdown product         Triazine           Deethyl hydroxyatrazine         NA 1330         NA 179         NA 178         Breakdown product         Triazine product           Deethyl-simazine         NA 1058         NA 157         4051         Breakdown product         Triazine product           Deethyl-simazine         NA 1047         NA 154         4096         Breakdown product         Triazine product           Deethylhydroxysimazine         NA 1064         NA 159         5031         Breakdown product         Triazine product           Deisopropyl atrazine         NA 1169         NA 176         NA 164         Breakdown product         Triazine product           Deisopropyl hydroxyatrazine         NA 1331         NA 179         NA 179         Breakdown product         Triazine product           Deisopropyl prometryn         NA 1334         NA 179         NA 219         Breakdown product         Triazine           Desmetryne         1014-69-3         80810         NA 779         Her						
Cyromazine   66215-27-8   #####   2286   Insecticide   Triazine				4033	Microbiocide	Triazine
Deethyl ametryne  NA 1168  NA 176  NA 164  Breakdown product  Deethyl-ydroxyatrazine  NA 1058  NA 157  Deethyl-atrazine  NA 1058  NA 157  Deethyl-atrazine  NA 1058  NA 157  Deethyl-simazine  NA 1047  NA 154  Deethyl-simazine  NA 1047  NA 154  Deethyl-simazine  NA 1047  NA 154  Deethyl-simazine  NA 1064  NA 159  Deethylhydroxysimazine  NA 1064  NA 159  Deisopropyl atrazine  NA 1169  NA 176  Deisopropyl hydroxyatrazine  NA 1311  NA 179  NA 178  Deisopropyl prometryn  NA 1331  NA 179  NA 178  Desamino-metribuzin  NA 1473  NA 219  NA 219  Diaminochlorotriazine  NA 856  NA 159  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  NA 857  NA 159  Dichloro-s-triazinetrione  Dichloro-s-triazinetrione  Didealkyl atrazine  NA 1322  NA 178  NA 178  NA 178  Breakdown product  Triazine product  Breakdown product  Triazine product  Triazine product  Dichloro-s-triazinetrione  Dichloros-triazinetrione  NA 857  NA 159  Diaminohydroxytriazine  NA 1320  NA 178  Didealkyl atrazine  NA 1332  NA 179  NA 178  Breakdown Triazine product  Triazine product  Triazine product  Diketo-desamino-metribuzin  NA 1332  NA 179  NA 178  Breakdown Triazine product  Triazine product  Triazine product  Triazine product  Diketo-desamino-metribuzin  NA 1332  NA 179  NA 178  Breakdown Triazine product  Triazine product  Triazine product  Triazine  Dichloroisocyanuric acid, potassium salt  Diketo-desamino-metribuzin  NA 1332  NA 179  NA 178  Breakdown Triazine product  Triazine  Diketo-desamino-metribuzin  NA 1474  NA 219  NA 219  Breakdown Triazine product  Triazine product  Triazine product  Triazine product  Triazine  Diketo-desamino-metribuzin  NA 1474  NA 219  NA 219  Breakdown Triazine product  Triazine  Dimethametryn  22936-75-0  80815  2287  Herbicide  Triazine  Triazine  Eglinazine  Eglinazine  Eglinazine  Eglinazine  Eglinazine  Eglinazine  Eglinazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Tr				1701	Herbicide	Triazine
Deethyl hydroxyatrazine NA 1330 NA 179 NA 178 Breakdown Deethyl-atrazine NA 1058 NA 157 4051 Breakdown Deethyl-simazine NA 1047 NA 154 4096 Breakdown Deethyl-simazine NA 1047 NA 154 4096 Breakdown Deethylhydroxysimazine NA 1064 NA 159 5031 Breakdown Deethylhydroxysimazine NA 1064 NA 159 5031 Breakdown Deethylhydroxysimazine NA 1169 NA 176 Breakdown Deisopropyl atrazine NA 1331 NA 179 NA 178 Breakdown Deisopropyl hydroxyatrazine NA 1331 NA 179 NA 178 Breakdown Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown Triazine Diaminochlorotriazine NA 856 NA 159 5028 Breakdown Triazine Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Didealkyl atrazine NA 1332 NA 178 NA 178 Breakdown Dichlorosocyanuric acid, potassium salt NA 1332 NA 179 NA 178 Breakdown Triazine Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown Triazine Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Eglinazine 6616-80-4 NA 201 NA 207 Herbicide Triazine Dirazine Character Characte			######	2286	Insecticide	Triazine
Deethyl hydroxyatrazine  NA 1330  NA 179  NA 178  Breakdown product  Deethyl-simazine  NA 1047  NA 154  Augusta product  Deethylhydroxysimazine  NA 1064  NA 159  NA 178  Breakdown product  Deisopropyl atrazine  NA 1169  NA 176  NA 164  Breakdown product  Deisopropyl product  Deisopropyl prometryn  NA 1331  NA 179  NA 178  Breakdown product  Deisopropyl product  Deisopropyl prometryn  NA 1331  NA 179  NA 178  Breakdown product  Deisopropyl prometryn  NA 1334  NA 179  NA 179  NA 179  Breakdown product  Desamino-metribuzin  NA 1473  NA 219  Desmetryne  Diaminochlorotriazine  NA 856  NA 159  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  Diaminohydroxytriazine  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  NA 1329  NA 178  NA 178  Breakdown product  Triazine product  Microbiocide, Water Treatment  Didealkyl hydroxyatrazine  NA 1329  NA 178  NA 178  Breakdown Triazine product  Triazine  Didealkyl hydroxyatrazine  NA 1329  NA 179  NA 178  Breakdown Triazine product  Triazine  Didealkyl hydroxyatrazine  NA 1329  NA 179  NA 178  Breakdown Triazine product  Triazine  Diketo-desamino-metribuzin  NA 1475  NA 129  NA 219  Breakdown Triazine product  Triazine  Diketo-desamino-metribuzin  NA 1474  NA 219  NA 219  Breakdown Triazine product  Triazine  Dimethametryn  22936-75-0  80815  2287  Herbicide Triazine  Eglinazine  Eglinazine 6616-80-4  NA 207  NA 207  Herbicide Triazine  Triazine  Triazine  Triazine  Triazine  Breakdown Triazine  Triazi	Deethyl ametryne	NA 1168	NA 176	NA 164	Breakdown	Triazine
Deethyl-atrazine NA 1058 NA 157 4051 Breakdown product Deethyl-simazine NA 1047 NA 154 4096 Breakdown product Deethylhydroxysimazine NA 1064 NA 159 5031 Breakdown product Deisopropyl atrazine NA 1169 NA 176 NA 164 Breakdown product Deisopropyl product NA 1331 NA 179 NA 178 Breakdown product Deisopropyl hydroxyatrazine NA 1331 NA 179 NA 178 Breakdown product Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Diaminochlorotriazine NA 856 NA 159 5028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown Triazine Diaminohydroxytriazine NA 1329 NA 178 Breakdown Triazine Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown Triazine Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown Triazine Didealkyl hydroxyatrazine NA 1475 NA 219 NA 219 Breakdown Triazine Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Briazine College						
Deethyl-atrazine	Deethyl hydroxyatrazine	NA 1330	NA 179	NA 178	Breakdown	Triazine
Deethyl-simazine NA 1047 NA 154 4096 Breakdown product Deethylhydroxysimazine NA 1064 NA 159 5031 Breakdown product Deisopropyl atrazine NA 1169 NA 176 NA 164 Breakdown product Deisopropyl hydroxyatrazine NA 1331 NA 179 NA 178 Breakdown product Deisopropyl pythometryn NA 1331 NA 179 NA 178 Breakdown product Deisopropyl pythometryn NA 1334 NA 179 NA 179 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Diaminochlorotriazine NA 856 NA 159 S028 Breakdown product Diaminochlorotriazine NA 857 NA 159 S028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 S032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Triazine product Dichloro-s-triazinetrione NA 1329 NA 178 NA 178 Breakdown product Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown Triazine product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine product Diketo-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine Dipropetryn 4147-51-7 ###### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Herbicide Triazine Product Diversione Section NA 207 Herbicide Triazine Product Diversione Section NA 207 Herbicide Triazine Eglinazine 6616-80-4 NA 201 NA 201 Herbicide Triazine Product Diversione Section NA 201 Herbicide Triazine Product Diversione Section NA 201 Herbicide Triazine Product Diversione Section NA 201 H	70-41-1-1-1	771 10 70				
Deethyllydroxysimazine  NA 1047 NA 154 A096 Breakdown product Deisopropyl atrazine  NA 1169 NA 176 NA 164 Breakdown product Deisopropyl hydroxyatrazine Deisopropyl hydroxyatrazine Deisopropyl hydroxyatrazine Deisopropyl prometryn NA 1331 NA 179 NA 178 Breakdown product Deisopropyl hydroxyatrazine Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product Desamino-metribuzin Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Diaminochlorotriazine NA 856 NA 159 S028 Breakdown product Diaminochlorotriazine NA 857 NA 159 Diaminochlorotriazine Diaminochlorotriazine Dichloro-s-triazinetrione  2782-57-2 81401 Dichloroisocyanuric acid, potassium salt Didealkyl atrazine Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Triazine Water Treatment Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown product Dimethametryn Dipropetryn Al 147-51-7 ##### Dipropetryn Al 147-51-7 ##### Dipropetryn Eglinazine Eglinazine Eglinazine Eglinazine Eglinazine Elefiniozin (ebuzin/tycor) 64529-56-2 ##### NA 15 NA 125 NA 125 NA 125 Herbicide Triazine	Deetnyl-atrazine	NA 1058	NA 157	4051		Triazine
Deethylhydroxysimazine  NA 1064  NA 159  So31  Breakdown product  Deisopropyl atrazine  NA 1169  NA 176  NA 164  Breakdown product  Deisopropyl hydroxyatrazine  NA 1331  NA 179  NA 178  Breakdown product  Deisopropyl prometryn  NA 1334  NA 179  NA 179  Breakdown product  Desamino-metribuzin  NA 1473  NA 219  NA 219  Breakdown product  Desamino-metribuzin  NA 1473  NA 219  NA 219  Breakdown product  Diaminochlorotriazine  NA 856  NA 159  So28  Breakdown product  Diaminohydroxytriazine  NA 857  NA 159  So32  Breakdown product  Dichloro-s-triazinetrione  2782-57-2  81401  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Triazine  Water Treatment  Didealkyl hydroxyatrazine  NA 1329  NA 178  NA 178  Breakdown product  Triazine  Water Treatment  Didealkyl hydroxyatrazine  Diketo-desamino-metribuzin  NA 1474  NA 219  NA 219  NA 219  Breakdown Triazine  product  Triazine  Diketo-metribuzin  NA 1475  NA 219  NA 219  Breakdown Triazine  Dimethametryn  Dimethametryn  22936-75-0  80815  2287  Herbicide  Triazine  Triazine  Triazine  Belinazine-ethyl  6616-80-4  NA 218  NA 125  NA 15  NA 15  NA 15  NA 15  NA 15  NA 15  Triazine	Doothyl simoning	NIA 1047	274 151	100.5		
Deethylhydroxysimazine  Deisopropyl atrazine  NA 1169  NA 176  NA 164  Deisopropyl product  NA 1331  NA 179  NA 178  Breakdown product  Deisopropyl hydroxystrazine  Deisopropyl prometryn  NA 1334  NA 179  NA 179  NA 179  Breakdown product  Deisopropyl prometryn  NA 1334  NA 179  NA 179  Desamino-metribuzin  NA 1473  NA 219  NA 219  Desamino-metribuzin  NA 1473  NA 219  NA 219  Desamino-metribuzin  NA 856  NA 159  Diaminochlorotriazine  NA 857  NA 159  Diaminohydroxytriazine  Diaminohydroxytriazine  Diaminohydroxytriazine  Dichloro-s-triazinetrione  2782-57-2  81401  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Water Treatment  Didealkyl hydroxyatrazine  NA 1329  NA 178  NA 178  Breakdown product  Triazine  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Triazine  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Triazine  Direbaekdown Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Diketo-metribuzin  NA 1475  NA 219  NA 219  Breakdown Product  Triazine  Direbaekdown Triazine  Triazine  Direbaekdown Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Direbaekdown Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Dipropetryn  4147-51-7  #####  2532  Herbicide Triazine  Triazine  Eglinazine 6616-80-4  NA 218  NA 217  Herbicide Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 155  NA 164  NA 179  NA 125  Breakdown Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine	Deetnyl-simazine	NA 1047	NA 154	4096		Triazine
Deisopropyl atrazine NA 1169 NA 176 NA 164 Breakdown product Deisopropyl hydroxyatrazine NA 1331 NA 179 NA 178 Breakdown product Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Diaminochlorotriazine NA 856 NA 159 S028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 S028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 S032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Treatment Dichloroisocyanuric acid, potassium salt Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Dicharding Friedrich Product Discoperation (AS 205-74) NA 218 NA 217 Herbicide Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Triazine Discoperation (AS 205-74) NA 125 1670 Herbicide Triazine Triazine Dicharding Friedrich Triazine Discoperation (AS 205-74) NA 125 1670 Herbicide Triazine Triazine Triazine Discoperation (AS 205-74-7) NA 125 1670 Herbicide Triazine Triazine Triazine Triazine Discoperation (AS 205-74-7) NA 125 1670 Herbicide Triazine Triazine Triazine Triazine Triazine Discoperation (AS 205-74-7) NA 125 1670 Herbicide Triazine Tri	Deethylhydrovycimagina	NIA 1064	NIA 150	5071		
Deisopropyl hydroxyatrazine  NA 1169  NA 176  NA 164  Breakdown product  Deisopropyl hydroxyatrazine  NA 1331  NA 179  NA 178  Breakdown product  Desamino-metribuzin  Diaminochlorotriazine  Diaminohydroxytriazine  Dichloro-s-triazinetrione  Dichloroisocyanuric acid, potassium salt  Didealkyl hydroxyatrazine  NA 1329  NA 139  NA 179  NA 189  NA 199  NA 219  Breakdown product  Diaminohydroxytriazine  NA 856  NA 159  S028  Breakdown product  Dichloro-s-triazinetrione  2782-57-2  81401  Dichloroisocyanuric acid, potassium salt  Didealkyl hydroxyatrazine  NA 1329  NA 178  NA 179  NA 178  Breakdown product  Triazine  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Triazine  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Triazine  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  Span 179  An 178  Breakdown product  Triazine  Dimethametryn  Dipropetryn  4147-51-7  #####  Span 179  An 179  Breakdown product  Triazine  Triazine  Dimethametryn  Dipropetryn  4147-51-7  #####  Span 179  Breakdown  Product  Triazine  Triazine  Triazine  Triazine  Dipropetryn  4147-51-7  #####  Span 179  Breakdown  Product  Triazine	Deemymydroxysmazme	NA 1004	NA 159	5031		Triazine
Deisopropyl hydroxyatrazine NA 1331 NA 179 NA 178 Breakdown product Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Desaminochlorotriazine NA 856 NA 159 S028 Breakdown product Diaminochlorotriazine NA 857 NA 159 S032 Breakdown product Diaminohydroxytriazine NA 857 NA 159 S032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Treatment Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown Triazine product Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Triazine Triazine Triazine Discoperation (according to the product triazine Triazine Triazine Triazine Triazine Triazine Triazine Triazine Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine T	Deisopropyl atrazine	NA 1160	NA 176	NIA 164		
Deisopropyl hydroxyatrazine Deisopropyl prometryn NA 1331 NA 179 NA 178 Breakdown product Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product Desmetryne Diaminochlorotriazine NA 856 NA 159 Diaminochlorotriazine NA 856 NA 159 Diaminochlorotriazine Diaminohydroxytriazine Diaminohydroxytriazine Dichloro-s-triazinetrione Dichloro-s-triazinetrione Dichloroisocyanuric acid, potassium salt Didealkyl atrazine NA 1329 NA 178 NA 178 Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Didealkyl hydroxyatrazine Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Diketo-desamino-metribuzin Dimethametryn Dimethametryn Dipropetryn A 147-51-7 ##### Eglinazine Bihozin (ebuzin/tycor) Herbicide Triazine Product Triazine Product Triazine Product Microbicide, Water Triazine Water Triazine Product Triazine Product Triazine Product Triazine Product Triazine Product Triazine Product Triazine Triazine Product Triazine Triazine Product Triazine Triazine Product Triazine Triazine Product Triazine Triazine Product Triazine Triazine Triazine Product Triazine	20150propyr adazmic	IVA 1109	NA 170	NA 104		Triazine
Deisopropyl prometryn NA 1334 NA 179 NA 179 Breakdown product  Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product  Desmetryne 1014-69-3 80810 NA 779 Herbicide Triazine product  Diaminochlorotriazine NA 856 NA 159 5028 Breakdown product  Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product  Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product  Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product  Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product  Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Eglinazine 6616-80-4 NA 218 NA 217 Herbicide Triazine Eglinazine ethyl 6656-80-4 NA 218 NA 17 NA 18 NA 17 NA 17 Inizzine Triazine Triazine Ethiozin (bazin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Tr	Deisopropyl hydroxyatrazine	NA 1331	NA 170	NA 179		T-::
Deisopropyl prometryn  NA 1334  NA 179  NA 179  Breakdown product  Desmetryne  1014-69-3  NA 1856  NA 159  Diaminochlorotriazine  NA 856  NA 159  Diaminochlorotriazine  NA 857  NA 159  Diaminohydroxytriazine  Dichloro-s-triazinetrione  Dichloro-s-triazinetrione  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 1320  NA 1332  NA 179  NA 178  NA 178  NA 178  Dichloroxytriazine  NA 1329  NA 178  NA 178  Dichloroxytriazine  NA 1332  NA 179  NA 178  Dichloroxytriazine  NA 1332  NA 179  NA 178  Dichloroxytriazine  NA 1332  NA 179  NA 178  Dichloroxytriazine  NA 1332  NA 179  NA 178  Dichloroxytriazine  Dichloroxytriazine  NA 1332  NA 179  NA 178  Dichloroxytriazine  NA 1329  NA 179  NA 178  Dichloroxytriazine  NA 1329  NA 179  NA 178  Dichloroxytriazine  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  NA 1320  Dichloroxytriazine  NA 1320  NA 179  NA 178  Dichloroxytriazine  Dichloroxytriazine  Triazine  Hexahydro-1,3,5-triethyl-S-  Triazine  Triazine  Triazine  Triazine  Triazine		*******	142.175	112.176		Triazine
Desamino-metribuzin NA 1473 NA 219 NA 219 Breakdown product  Desmetryne 1014-69-3 80810 NA 779 Herbicide Triazine Diaminochlorotriazine NA 856 NA 159 5028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dimethametryn 24147-51-7 ##### 2532 Herbicide Triazine Eglinazine-ethyl 6616-80-4 NA 207 NA 207 Herbicide Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Hexahydro-1,3,5-triethyl-S- triazine Triazine Dimethametryn 12536 Herbicide Triazine Hexahydro-1,3,5-triethyl-S- triazine Ma 125 NA 125 1670 Herbicide Triazine Triazine Dimethametryn Triazine Triazine Dimethametryn 1041-251-6 Herbicide Triazine Hexahydro-1,3,5-triethyl-S- triazine Ma 1450 NA 125 1670 Herbicide Triazine Dimethametryn NA 1475 NA 125 1670 Herbicide Triazine Triazine	Deisopropyl prometryn	NA 1334	NA 179	NA 179		Triogina
Desamino-metribuzin  NA 1473  NA 219  NA 219  Breakdown product  Triazine  Diaminochlorotriazine  NA 856  NA 159  Diaminochlorotriazine  NA 856  NA 159  Diaminochlorotriazine  NA 857  NA 159  Diaminohydroxytriazine  NA 857  NA 159  Diaminohydroxytriazine  NA 857  NA 159  Dichloro-s-triazinetrione  2782-57-2  81401  204  Microbiocide, Water Treatment  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  NA 178  Breakdown product  Triazine  Water Treatment  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  Eglinazine  Dipropetryn  4147-51-7  #####  Eglinazine-ethyl  Eglinazine-ethyl  Eglinazine-ethyl  Edliozin (ebuzin/tycor)  64529-56-2  #####  NA 125  NA 125  NA 126  Herbicide  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine  Triazine						THAZIIC
Desmetryne 1014-69-3 80810 NA 779 Herbicide Triazine Diaminochlorotriazine NA 856 NA 159 5028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown product Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Hexahydro-1,3,5-triethyl-S- triazine Triazine	Desamino-metribuzin	NA 1473	NA 219	NA 219		Triazine
Desmetryne 1014-69-3 80810 NA 779 Herbicide Triazine Diaminochlorotriazine NA 856 NA 159 5028 Breakdown product Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment Dichloroisocyanuric acid, potassium salt 2244-21-5 81403 2 Microbiocide, Water Treatment Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 125 NA 125 NA 125 NA 125 NA 125 NA 125 Triazine Divated Triazine Triazine Divated Triazine Triazine Dipropetryn 64529-56-2 ##### NA 125 NA 217 Herbicide Triazine Divated Triazine Triazine Dipropetryn 108-74-7 NA 125 NA 125 NA 125 NA 125 Triazine Divated Triazine Triazine Divated Triazine Triazine Dipropetryn 108-74-7 NA 125 NA 125 NA 125 Triazine Dipropetryn Triazine Triazine Dipropetryn 108-74-7 NA 125 NA 125 Triazine Dipropetryn Triazine Triazine Dipropetryn 108-74-7 NA 125 Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn 108-74-7 NA 125 Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine Dipropetryn Triazine Triazine						, , , , , , , , , , , , , , , , , , , ,
Diaminohydroxytriazine NA 857 NA 159 5032 Breakdown product Dichloro-s-triazinetrione 2782-57-2 81401 204 Microbiocide, Water Treatment  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product  Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product  Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product  Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown product  Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine  Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine  Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine  Eglinazine-ethyl 6616-80-4 NA 218 NA 217 Herbicide Triazine  Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine  Hexahydro-1,3,5-triethyl-S- triazine  Lizine Disconding the product Triazine  Herbicide Triazine  Triazine Triazine  Product Triazine  Product Triazine  Triazine Triazine  Product Triazine  Triazine Triazine  Belhiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine  Triazine Triazine  Hexahydro-1,3,5-triethyl-S- triazine  Triazine Triazine			80810	NA 779		Triazine
Diaminohydroxytriazine  NA 857  NA 159  S032  Breakdown product  Dichloro-s-triazinetrione  2782-57-2  81401  204  Microbiocide, Water Treatment  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Water Treatment  Didealkyl hydroxyatrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  Eglinazine  6616-80-4  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 125  NA 125  Herbicide  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine	Diaminochlorotriazine	NA 856	NA 159	5028	Breakdown	
Dichloro-s-triazinetrione  Dichloro-s-triazinetrione  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Diketo-desamino-metribuzin  Diketo-metribuzin  NA 1474  NA 219  NA 219  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  Al 147-51-7  #####  Dipropetryn  Eglinazine  6616-80-4  NA 207  NA 218  NA 217  Herbicide  Triazine  Eglinazine-ethyl  Ethiozin (ebuzin/tycor)  Hexahydro-1,3,5-triethyl-S-triazine  Triazine  Triazine  Triazine  Microbiocide, Water  Treatment  NA 178  Breakdown product  Dimethametryn  NA 1332  NA 179  NA 219  NA 219  Breakdown product  Triazine  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine						
Dichloro-s-triazinetrione  2782-57-2  81401  204  Microbiocide, Water Treatment  Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  Eglinazine  6616-80-4  NA 207  NA 207  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 125  NA 125  Herbicide  Triazine	Diaminohydroxytriazine	NA 857	NA 159	5032		Triazine
Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  Eglinazine  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 125  NA 125  NA 1670  Herbicide  Triazine	Dill	2502 55 2				
Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  22936-75-0  Boss 15  Breakdown product  Dimethametryn  22936-75-0  Boss 15  Breakdown product  Triazine  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  Eglinazine  6616-80-4  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  NA 15  N/A  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine	Dichioro-s-triazinetrione	2782-57-2	81401	204		Triazine
Dichloroisocyanuric acid, potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Eglinazine  Eglinazine  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Eglinazine  Ethiozin (ebuzin/tycor)  Hexahydro-1,3,5-triethyl-S-triazine  Triazine  108-74-7  NA 125  108-74-7  NA 125  NA 170  Microbiocide, Water  Triazine  Triazine  Product  Diproduct  Diproduct  Triazine	•					
potassium salt  Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dipropetryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Eglinazine  Eglinazine  6616-80-4  NA 207  NA 218  NA 217  Herbicide  Triazine  Eglinazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  N/A  Triazine  Hexahydro-1,3,5-triethyl-S- triazine	Dichloroisocyanyric acid	2244 21 5	91402			
Didealkyl atrazine NA 1329 NA 178 NA 178 Breakdown product Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown product Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine Eglinazine-ethyl 6616-80-4 NA 218 NA 217 Herbicide Triazine Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine Hexahydro-1,3,5-triethyl-S- 108-74-7 NA 125 1670 Herbicide Triazine		2244-21-3	01403	2	Microbiocide,	Triazine
Didealkyl atrazine  NA 1329  NA 178  NA 178  Breakdown product  Didealkyl hydroxyatrazine  NA 1332  NA 179  NA 178  Breakdown product  Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  Eglinazine  6616-80-4  NA 207  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  N/A  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine	potassium suit					
Didealkyl hydroxyatrazine NA 1332 NA 179 NA 178 Breakdown product  Diketo-desamino-metribuzin NA 1475 NA 219 NA 219 Breakdown product  Diketo-metribuzin NA 1474 NA 219 NA 219 Breakdown product  Dimethametryn 22936-75-0 80815 2287 Herbicide Triazine  Dipropetryn 4147-51-7 ##### 2532 Herbicide Triazine  Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine  Eglinazine-ethyl 6616-80-4 NA 218 NA 217 Herbicide Triazine  Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine  Hexahydro-1,3,5-triethyl-S-  triazine triazine	Didealkyl atrazine	NA 1329	NA 178	NA 178		Triogina
Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dimethametryn  22936-75-0  Boss 15  2287  Herbicide  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  6616-80-4  NA 207  NA 218  NA 217  Herbicide  Triazine  Eglinazine-ethyl  64529-56-2  #####  NA 15  NA 15  NA 15  NA 178  Breakdown product  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Triazine  Herbicide  Triazine  Triazine  Triazine  Triazine  Triazine  Hexahydro-1,3,5-triethyl-S-triethyl-S-triazine  Triazine  Triazine				*****/**		Hazine
Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  22936-75-0  Bo815  2287  Herbicide  Triazine  Dipropetryn  4147-51-7  #####  2532  Herbicide  Triazine  Eglinazine  6616-80-4  NA 207  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  N/A  Triazine  Hexahydro-1,3,5-triethyl-S-  triazine  Triazine  Triazine  Triazine  Hexahydro-1,3,5-triethyl-S-  triazine	Didealkyl hydroxyatrazine	NA 1332	NA 179	NA 178		Triazine
Diketo-desamino-metribuzin  NA 1475  NA 219  NA 219  Breakdown product  Dimethametryn  Dipropetryn  A 147-51-7  Eglinazine  Eglinazine-ethyl  Eglinazine-ethyl  Ethiozin (ebuzin/tycor)  Ethiozin (ebuzin/tycor)  Diketo-metribuzin  NA 1474  NA 219  NA 219  NA 219  Breakdown product  Breakdown product  Dipropetryn  A 147-51-0  Breakdown product  Triazine					1	THAZIIC
Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  22936-75-0  80815  2287  Herbicide  Triazine  Dipropetryn  4147-51-7  #####  Eglinazine  6616-80-4  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  NA 15  N/A  Triazine  Hexahydro-1,3,5-triethyl-S-  triazine  Triazine  Triazine  Hexahydro-1,3,5-triethyl-S-  triazine	Diketo-desamino-metribuzin	NA 1475	NA 219	NA 219		Triazine
Diketo-metribuzin  NA 1474  NA 219  NA 219  Breakdown product  Dimethametryn  Dipropetryn  4147-51-7  H####  2532  Herbicide  Triazine  Eglinazine  6616-80-4  NA 207  NA 207  Herbicide  Triazine  Eglinazine-ethyl  6616-80-4  NA 218  NA 217  Herbicide  Triazine  Ethiozin (ebuzin/tycor)  64529-56-2  #####  NA 15  NA 15  N/A  Triazine  Hexahydro-1,3,5-triethyl-S-  triazine  Triazine  Triazine  Triazine  Triazine						
Dimethametryn   22936-75-0   80815   2287   Herbicide   Triazine	Diketo-metribuzin	NA 1474	NA 219	NA 219		Triazine
Dimethametryn         22936-75-0         80815         2287         Herbicide         Triazine           Dipropetryn         4147-51-7         #####         2532         Herbicide         Triazine           Eglinazine         6616-80-4         NA 207         NA 207         Herbicide         Triazine           Eglinazine-ethyl         6616-80-4         NA 218         NA 217         Herbicide         Triazine           Ethiozin (ebuzin/tycor)         64529-56-2         #####         NA 15         N/A         Triazine           Hexahydro-1,3,5-triethyl-S-triazine         108-74-7         NA 125         1670         Herbicide         Triazine						
Dipropetryn						Triazine
Eglinazine 6616-80-4 NA 207 NA 207 Herbicide Triazine  Eglinazine-ethyl 6616-80-4 NA 218 NA 217 Herbicide Triazine  Ethiozin (ebuzin/tycor) 64529-56-2 ###### NA 15 N/A Triazine  Hexahydro-1,3,5-triethyl-S- triazine Triazine  Hexahydro-1,3,5-triethyl-S- triazine Triazine				2532	Herbicide	
Eglinazine-ethyl 6616-80-4 NA 218 NA 217 Herbicide Triazine  Ethiozin (ebuzin/tycor) 64529-56-2 ###### NA 15 N/A Triazine  Hexahydro-1,3,5-triethyl-S- triazine  Triazine  Hexahydro-1,3,5-triethyl-S- triazine					Herbicide	
Ethiozin (ebuzin/tycor) 64529-56-2 ##### NA 15 N/A Triazine  Hexahydro-1,3,5-triethyl-S- triazine  Hexahydro-1,3,5-triethyl-S- triazine  Hexahydro-1,3,5-triethyl-S- triazine				NA 217	Herbicide	
Hexahydro-1,3,5-triethyl-S- 108-74-7 NA 125 1670 Herbicide Triazine			#####	NA 15	N/A	
triazine Washington 12.5 to 10.0005t		108-74-7	NA 125	1670		
mexanydro-135-tris (2-   1028251   92201   1121   36 1 1 1 1						
Triazine	Hexahydro-1,3,5-tris (2-	1028251	83301	1171	Microbiocide	Triazine

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Cl
		Code	Code	OSC Type	Chemical Class
hydroxyethyl)-s-triazine			<u> </u>	<del> </del>	
Hexahydro-1,3,5-tris(2-	25254-50-6	#####	1915	N/A	Triazine
hydroxypropyl)-s-triazine		] """"	1713	IV/A	Inazine
Hexahydro-1,3,5-tris(3-	751061	#####	NA 127	N/A	Triazine
methoxypropyl)-1,3,5-triazine		""""	1121 127	IV/A	Triazine
Hexazinone	51235-04-2	#####	1871	Herbicide	Triazine
Hydroxyatrazine	2163-68-0	NA 178	NA 178	Breakdown	Triazine
,		141170	1 11/0	product	Thazine
Ipazin	1912-25-0	#####	NA 130	N/A	Triazine
Isomethiozin	57052-04-7	#####	NA 875	N/A	Triazine
Metamitron	41394-05-2	NA 135	2672	Herbicide	
Methometon	1771-07-9	#####	NA 156		Triazine
Methoprotryne	841-06-5	#####	NA 154	N/A	Triazine
Metribuzin	21087-64-9	#####		Herbicide	Triazine
Metribuzin-DA	NA 1053	NA 156	1692	Herbicide	Triazine
, .	14A 1055	INA 130	4079	Breakdown	Triazine
Mono (trichloro) tetra	30622-37-8	81406	856	product	
(monopotassium dichloro)	30022-37-8	01400	820	Microbiocide,	Triazine
penta-s-triazine		ļ		Water	
MPMT	845-52-3	82701	2695	Treatment	
Potassium 1,3-dichloro-2,4,6-	NA 173	NA 346	1650	N/A	Triazine
trioxo hexahydro-s-triazine	144.173	IVA 540	1030	N/A	Triazine
Prefox (cyprazine with	8071-40-7	#####	NA 886	77. 1 1	
ethiolate)	0071-40-7	<del>1111111111</del>	NA 000	Herbicide	Triazine
Procyanazine	32889-48-8	#####	NA 908	TTankinin	
Proglinazine	68228-20-6	NA 209	NA 209	Herbicide	Triazine
Proglinazine-ethyl	68228-18-2	NA 218		Herbicide	Triazine
Prometon	1610-18-0	80804	NA 218	Herbicide	Triazine
Prometryn	7287-19-6	80805	499	Herbicide	Triazine
Propazine	139-40-2		502	Herbicide	Triazine
Pymetrozine	123312-89-0	80808	504	Herbicide	Triazine
Sebuthylazine		<del>        </del>	5232	Insecticide	Triazine
Secbumeton	7286-69-3	#####	NA 127	N/A	Triazine
Simazine	26259-45-0	#####	2849	Herbicide	Triazine
Simetone	122-34-9	80807	531	Herbicide	Triazine
**	673-04-1	#####	3532	Herbicide	Triazine
Simetryn	1014-70-6	#####	4097	N/A	Triazine
Sodium dichloro-s-	2893-78-9	81404	205	Microbiocide,	Triazine
triazinetrione				Water	
Sodium dichloro-s-	51500.00.0			Treatment	
triazinetrione dihydrate	51580-86-0	81407	1818	Microbiocide,	Triazine
unazmedione diffydiate		İ		Water	
Sym-triazine	108-80-5	91400		Treatment	
Sym-diazme	108-80-5	81402	893	Microbiocide,	Triazine
			Ì	Water	
Terbumeton	33693-04-8	NA 190	NTA 100	Treatment	
Terbuthylazine	5915-41-3	80814	NA 189	Herbicide	Triazine
	JJ1J=41-3	00014	3004	Algaecide,	Triazine
		l		Herbicide,	
Terbutryn	886-50-0	80813	1691	Microbiocide	
Terbutryn, other related	NA 1136	NA 167		Herbicide	Triazine
Triaziflam	131475-57-5		91691	Herbicide	Triazine
Trichloro melamine		NA 234	NA 233	Herbicide	Triazine
Trichloro-s-triazinetrione	2107336	77101	1023	Microbiocide	Triazine
лионого-э-птадиентопе	87-90-1	81405	407	Microbiocide,	Triazine
		<u></u> -L		Water	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Ol
		Code	Code	Ose Type	Chemical Class
				Treatment	
Trietazine	1912-26-1	80809	NA 778	Herbicide	Triazine
1,3-Diphenyl urea	102-07-8	NA 186	NA 185	Plant Growth	Urea
				Regulator	Olca
3,4-Dichloromethylphenyl urea	NA 1335	NA 179	NA 179	Breakdown	Urea
				product	0.104
3,4-Dichlorophenyl urea	154536	NA 179	NA 179	Breakdown	Urea
2 (7) (7)				product	
3-(Trifluoromethyl)phenyl urea	13114-87-9	NA 179	NA 178	Breakdown	Urea
Amidosulfuron	120022 27 7	374 100	3-1-1-2	product	
Anisuron	120923-37-7	NA 183	NA 183	Herbicide	Sulfonylurea
Azimsulfuron	2689-43-2	#####	NA 138	Herbicide	Benzoylurea
Bensulfuron	120162-55-2	#####	NA 112	Herbicide	Sulfonylurea
Bensulfuron methyl	99283-01-9	NA 181	NA 180	Herbicide	Sulfonylurea
Bentaluron	83055-99-6	<del>         </del>	2263	Herbicide	Sulfonylurea
Benzthiazuron	NA 1405	NA 197	NA 197	Fungicide	Urea
Buthiuron	1929-88-0	#####	NA 133	Herbicide	Urea
Buturon	30043-55-1	NA 230	NA 230	Herbicide	Urea
Chlorbromuron	3766-60-7	#####	NA 119	Herbicide	Urea
Chloreturon	13360-45-7	90701	1733	Herbicide	Urea
Chlorimuron	20782-58-5	NA 231	NA 230	Herbicide	Phenylurea
Chlorimuron ethyl	99283-00-8	NA 204	NA 203	Herbicide	Sulfonylurea
Chlorotoluron	90982-32-4	#####	2458	Herbicide	Sulfonylurea
Chloroxuron	15545-48-9	#####	NA 122	Herbicide	Urea
Chlorsulfuron	1982-47-4	25501	576	Herbicide	Urea
C'1C	64902-72-3	#####	2143	Herbicide	Sulfonylurea
Cinosulturon	94593-91-6	NA 183	NA 183	Herbicide	Sulfonylurea
Cyclosulfamuron	99485-76-4	NA 228	NA 228	Herbicide	<u>Urea</u>
Cycluron	136849-15-5	NA 204	NA 203	Herbicide	Sulfonylurea
Daimuron	2163-69-1	35504	NA 306	Herbicide	Urea
Demethylfluometuron ·	42609-52-9	NA 204	NA 204	Herbicide	Phenylurea
Dememyfridomethon.	NA 1333	NA 179	NA 178	Breakdown	Urea
Dichloral urea	116-52-9	#####	274 115	product	
Difenoxuron	14214-32-5	#####	NA 115	Herbicide	Urea
Diflubenzuron	35367-38-5	#####	NA 156	Herbicide	Urea
Dimefuron	34205-21-5	NA 186	1992	Insecticide	Benzoylurea
Diuron	330-54-1	35505	NA 185	Herbicide	Urea
Ethametsulfuron	111353-84-5	NA 212	231	Herbicide	Urea
Ethametsulfuron-methyl	97780-06-8	#####	NA 212	Herbicide	Sulfonylurea
Ethidimuron	30043-49-3	#####	NA 43	Herbicide	Sulfonylurea
Ethoxysulfuron	126801-58-9	NA 226	NA 994	Herbicide	Urea
Fenuron	101-42-8	35507	NA 225	Herbicide	Sulfonylurea
Fenuron trichloroacetate	4482-55-7	35508	4072	Herbicide	Urea
Flazasulfuron	104040-78-0	NA 229	5035	Herbicide	Urea
Flucycloxuron	113036-88-7	#####	NA 228	Herbicide	Sulfonylurea
Flucycloxuron, (E)	94050-52-9	NA 201	NA 109 NA 200	Herbicide	Benzoylurea
Flufenoxuron	101463-69-8	######		Herbicide	Benzoylurea
Fluometuron	2164-17-2	35503	NA 901 166	Insecticide	Benzoylurea
Fluothiuron	33439-45-1	NA 232		Herbicide	Urea
Flupyrsulfuron	150315-10-9	NA 205	NA 232	Herbicide	Phenylurea
Flupyrsulfuron-methyl	NA 1460	NA 205 NA 216	NA 204	Herbicide	Sulfonylurea
Flupyrsulfuron-methyl, sodium	144740-54-5	NA 218	NA 216	Herbicide	Sulfonylurea
salt	C-4-C-0-1-1-1	17A 210	NA 217	Herbicide	Sulfonylurea
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Chemical Name	CAS Number	U.S. EPA PC	CA Chem	IIco Trees	G : 10
	<u>GIAD INGINOCI</u>	Code	Code	Use Type	Chemical Class
Forchlorfenuron	68157-60-8	#####	5557	Plant Growth	Urea
			, ,	Regulator	Orea
Halosulfuron	100784-20-1	#####	3919	Herbicide	Sulfonylurea
Hexaflumuron	86479-06-3	#####	3899	Insecticide	Benzoylurea
Imazosulfuron	122548-33-8	NA 229	NA 229	Herbicide	Sulfonylurea
Iodosulfuron methyl	185119-76-0	NA 212	NA 211	Herbicide	Sulfonylurea .
Iodosulfuron methyl, sodium	144550-36-7	NA 212	NA 211	Herbicide	Sulfonylurea .
salt				HOLOICIUC	Sunonylurea
Isononuron	28805-78-9	#####	NA 151	Herbicide	Urea
Isoproturon	34123-59-6	#####	NA 155	Herbicide	Urea
Isouron	55861-78-4	#####	NA 101	Herbicide	Urea
Linuron	330-55-2	35506	361	Herbicide	Urea
Lufenuron	103055-07-8	NA 184	NA 183	Insecticide	Benzoylurea
Mesosulfuron-methyl	208465-21-8	#####	NA 993	Herbicide	Sulfonylurea
Methabenzthiazuron	18691-97-9	#####	NA 133	Herbicide	Urea
Methiuron	21540-35-2	#####	NA 145	Herbicide	Urea
Methyldymron	42609-73-4	NA 205	NA 204	Herbicide	
Metobenzuron	111578-32-6	#####	NA 37	Herbicide	Phenylurea
Metobromuron	3060-89-7	35901	NA 313	Herbicide	Urea
Metoxuron	19937-59-8	#####	NA 135	Herbicide	Urea
Metsulfuron	5585-64-8	NA 183	NA 182		Urea
Metsulfuron-methyl	74223-64-6	#####	2222	Herbicide Herbicide	Sulfonylurea
Monisouron	55807-46-0	NA 233	NA 232		Sulfonylurea
Monolinuron	1746-81-2	#####	NA 119	Herbicide	Urea
Monolinuron with paraquat	69312-67-0	#####		Herbicide	Urea
dichloride			NA 119	Herbicide	Urea, Bipyridylium
Monuron	150-68-5	35501	408	Herbicide	Urea
Monuron-TCA	140-41-0	35502	409	Herbicide	Urea
Neburon	555-37-3	12001	424	Herbicide	Urea
Nicosulfuron	111991-09-4	#####	3829	Herbicide	Sulfonylurea
Norea	18530-56-8	35801	435	Herbicide	Urea
Norea (stereochemistry unspecified)	2163-79-3	NA 201	NA 200	Herbicide	Urea
Norea, other related	NA 1096	NA 163	90435	Herbicide	Urea
Novaluron	116714-46-6	NA 226	NA: 226	Herbicide	Benzoylurea
Oxasulfuron	144651-06-9	#####	NA 991	Herbicide	Sulfonylurea
Parafluron	7159-99-1	35510	NA 307	Herbicide	Urea
Pencycuron	66063-05-6	#####	NA 103	Fungicide	Urea
Penfluron	35367-31-8	#####	NA 100	Herbicide	Urea
Phenobenzuron	449583	#####	NA 133	Herbicide	Benzoylurea
Primisulfuron-methyl	86209-51-0	#####	5103	Herbicide	Sulfonylurea
Prosulfuron	94125-34-5	#####	5115	Herbicide	Sulfonylurea
Pyrazosulfuron	98389-04-9	NA 205	NA 205	Herbicide	Sulfonylurea
Pyrazosulfuron-ethyl	93697-74-6	NA 218	NA 217	Herbicide	Sulfonylurea
Rimsulfuron	122931-48-0	#####	3835	Herbicide	Sulfonylurea
Siduron	1982-49-6	35509	603	Herbicide	Urea
Sulfometuron	74223-56-6	NA 206	NA 205	Herbicide	Sulfonylurea
Sulfometuron methyl	74222-97-2	#####	2149	Herbicide	Sulfonylurea
Sulfosulfuron	141776-32-1	85601	5136	Herbicide	Sulfonylurea
Tebuthiuron	34014-18-1	#####	1810	Herbicide	Urea
Teflubenzuron	83121-18-0	#####	NA 33	Insecticide	Benzoylurea
Tetrafluoron	27954-37-6	#####	NA 145	Herbicide	
Thiazafluron	25366-23-8	NA 190	NA 189	Herbicide	Phenylurea
				TICIVICIUE	Urea

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chemical Class
Thidiazuron	51707-55-2	#####	2162	Defoliant, Plant	Urea
				Growth	
Tru 'C 10				Regulator	
Thifensulfuron	79277-67-1	NA 183	NA 182	Herbicide	Sulfonylurea
Thifensulfuron-methyl	79277-27-3	#####	2237	Herbicide	Sulfonylurea
Triasulfuron	82097-50-5	#####	5100	Herbicide	Sulfonylurea
Tribenuron	106040-48-6	NA 206	NA 205	Herbicide	Sulfonylurea
Tribenuron methyl	101200-48-0	#####	2338	Herbicide	Sulfonylurea
Triflumuron	64628-44-0	#####	2961	Insecticide	Benzoylurea
Triflusulfuron-methyl	126535-15-7	#####	3875	Herbicide	Sulfonylurea
Trimeturon	3050-27-9	·#####	NA 121	Herbicide	Urea
Tritosulfuron	142469-14-5	NA 234	NA 234	Herbicide	Sulfonylurea
Bromacil	314-40-9	12301	83	Herbicide	Uracil
Bromacil, dimethylamine salt Bromacil, lithium salt	69484-13-5	12304	840	Herbicide	Uracil
Bromacil, sodium salt	53404-19-6	12302	1573	Herbicide	Uracil
Butafenacil	69484-12-4	12303	842	Herbicide	Uracil
Flupropacil	134605-64-4	#####	NA 992	Herbicide	Uracil
Isocil	120890-70-2	NA 229	NA 229	Herbicide	Uracil
Lenacil	314-42-1	11801	NA 119	Herbicide	Uracil
Terbacil	95177	#####	NA 155	Herbicide	Uracil
2-Hydroxy alachlor	5902-51-2 NA 943	12701	532	Herbicide	Uracil
2-11ydroxy afaction	NA 943	NA 183	2602	Breakdown	Chloroacetanilide
3,4,5-tribromo salicylanilide,	NA 1122	NA 165	90833	product Microbiocide	A 171.1
other related	. 1411 1122	1NA 103	90055	Microbiocide	Anilide
3,5-dibromosalicylanilide	2577-72-2	77405	1256	Microbiocide	Anilide
5,4-dibromosalicylanilide	NA 1024	NA 122	1071	Microbiocide	Anilide
Aatram (propachlor with	8070-76-6	80816	NA 781	Herbicide	Triazine,
atrazine) (019101+080803)			142,01	1101010100	Chloroacetanilide
Acetochlor	34256-82-1	#####	2349	Herbicide	Chloroacetanilide
Alachlor	15972-60-8	90501	678	Herbicide	Chloroacetanilide
Benodanil	15310-01-7	######	NA 154	Fungicide	Anilide
Butachlor	23184-66-9	#####	4056	Herbicide	Chloroacetanilide
Butenachlor	87310-56 <b>-</b> 3	NA 206	NA 206	Herbicide	Chloroacetanilide
Clomeprop	84496-56-0	NA 204	NA 203	Herbicide	Anilide
Cyprofuram	69581-33-5	NA 186	NA 185	Fungicide	Anilide
Cypromid	2759-71-9	26101	178	Herbicide	Anilide
Delachlor	24353-58-0	#####	NA 132	Herbicide	Chloroacetanilide
Diethatyl-ethyl	38727-55-8	#####	1995	Herbicide	Chloroacetanilide
Diflufenican	83164-33-4	NA 184	NA 183	Herbicide	Anilide
Dimethachlor	50563-36-5	NA 184	NA: 183	Herbicide	Chloroacetanilide
Etobenzanid	79540-50-4	NA 229	NA 228	Herbicide	Anilide
Fenasulam	78357-48-9	NA 231	NA 231	Herbicide	Anilide
Flufenacet	142459-58-3	#####	5293	Herbicide	Anilide
Flufenican	NA 1568	NA 234	NA 234	Herbicide	Anilide
Flutolanil	66332-96-5	#####	2305	Fungicide	Anilide
Mefenacet	73250-68-7	NA 189	NA 188	Herbicide	Anilide
Mefluidide	53780-34-0	#####	5082	Herbicide,	Anilide
				Plant Growth	
Mefluidide, diethanolamine salt	53780-36-2	#####	1055	Regulator	
Mefluidide, potassium salt	83601-83-6	###### ######	1955	Herbicide	Anilide
Mepronil	55814-41-0	NA 189	5083	Herbicide	Anilide
Metazachlor	67129-08-2	NA 184	NA 188 NA 183	Fungicide	Anilide
	07127-00-2	1477 104	14V 102	Herbicide	Chloroacetanilide

		11 2 60 4 00	CA Cham	T T T	C1 : 1 = 1
Chemical Name	CAS Number	U.S. EPA PC Code	<u>CA Chem</u> <u>Code</u>	Use Type	Chemical Class
Metolachlor	51218-45-2	#####	1996	Herbicide	Chlamanata 31:1
Metolachlor, (S)	87392-12-9	#####	5133	Herbicide	Chloroacetanilide
Monalide	7287-36-7	#####	NA 134	Herbicide	Chloroacetanilide
Naproanilide	52570-16-8	NA 233	NA 232	Herbicide	Anilide
Ofurace	58810-48-3	NA 189	NA 188		Anilide
Oxadixyl	77732-09-3	· #####	3539	Fungicide	Anilide
Perfluidone	37924-13-3	#####	1895	Fungicide Herbicide	Anilide
Perfluidone, diethanolamine	NA 991	NA 671	1896	Herbicide	Anilide
salt	141751	142.071	1090	Herbicide	Anilide
Pretilachlor	51218-49-6	NA 184	NA 184	Herbicide	Chloroacetanilide
Propachlor	1918-16-7	19101	511	Herbicide	Chloroacetanilide
Propanil	709-98-8	28201	503	Herbicide	Anilide
Propisochlor	86763-47-5	NA 233	NA 233	Herbicide	Chloroacetanilide
Prynachlor	21267-72-1	######	NA 138	Herbicide,	Chloroacetanilide
				Plant Growth	Canoroaccaminac
		:		Regulator	
Pyracarbolid	24691-76-7	NA 210	NA 209	Fungicide	Anilide
Salicylanilide	87-17-2	77407	450	Fungicide,	Anilide
				Microbiocide	
Sodium salicylanilide	251930	#####	NA 145	Fungicide	Anilide
Thenylchlor	96491-05-3	. NA 229	NA 229	Herbicide	Chloroacetanilide
Triclocarban	101-20-2	27901	844	N/A	Anilide
1,2,4-triazole	288-88-0	NA 968	3560	N/A	Azole
1H-benzo triazole	95-14-7	NA 493	2418	N/A	Azole
2,2'-Dithiobisbenzothiazole	120-78-5	9202	NA 109	Fungicide,	Mercaptobenzothiazo
				Microbiocide,	le
2-(2'-hydroxy-5-methyl	2440-22-4	NA 103	0.607	Insecticide	
phenyl)-benzotriazole	2440-22-4	NA 103	2607	Fungicide	Azole
2-(dithiocyanomethylthio)-	NA 1346	NA 192	NA 191	Fungicide	Mercaptobenzothiazo
benzothiazole		111172	141171	1 ungicide	le
2-	79910-32-0	#####	NA 925	Microbiocide	Mercaptobenzothiazo
(thiocyanomethylthio)benzothi					le
azole with 2'-hydroxyethyl-2,3-	•		ĺ	•	
dibromopropionate		•			
2-EEBC	62732-91-6	#####	1983	Fungicide	Benzimidazole
2-Mercaptobenzothiazole	149-30-4	51701	556	Fungicide,	Mercaptobenzothiazo
2 Margantahan athia at 1	5460 45 0			Microbiocide	le
2-Mercaptobenzothiazole, 1- (hydroxyethyl)pyridinium salt	5468-43-9	51702	NA 423	Fungicide,	Mercaptobenzothiazo
2-Mercaptobenzothiazole,	52404 52 0	51500	371 100	Microbiocide	<u>le</u>
ferric salt	53404-53-8	51708	NA 426	Fungicide,	Mercaptobenzothiazo
2-Mercaptobenzothiazole,	53404-58-3	9201	NA 100	Microbiocide	le
manganese salt	22404-26-2	9201	NA 108	Fungicide,	Mercaptobenzothiazo
3		i	}	Microbiocide, Insecticide	le
2-Mercaptobenzothiazole,	5902-85-2	51706	NA 424	Fungicide,	Mercontoho41-i-
monoethanolammonium salt			4144 767	Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole,	7778-70-3	51707	NA 425	Fungicide,	Mercaptobenzothiazo
potassium salt				Microbiocide	le
2-Mercaptobenzothiazole,	2492-26-4	51704	3064	Microbiocide,	Mercaptobenzothiazo
sodium salt				Fungicide	le
2-Mercaptobenzothiazole,	2492-26-4	51704	613	Fungicide,	Mercaptobenzothiazo
sodium salt				Microbiocide	le
2-Mercaptobenzothiazole, zinc	155-04-4	51705	1449	Fungicide,	Mercaptobenzothiazo
salt				Microbiocide	le, Inorganic-Zinc

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		
5-Chloro-2-	5331-91-9	NA 200	NA 199	N/A	Mercaptobenzothiazo
mercaptobenzothiazole			<u> </u>		le
5-Chloro-2-	5406-97-3	51703	1238	Microbiocide	Mercaptobenzothiazo
mercaptobenzothiazole, lauryl pyridinium salt					le
5-Chloro-2-	5406-97-3	NA 421	1597	Mioralia	26
mercaptobenzothiazole, lauryl	3-100-97-3	1474 421	1397	Microbiocide, Fungicide	Mercaptobenzothiazo le
pyridinium salt				rungicide	le le
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc				Fungicide	le, Inorganic-Zinc
salt					
Azaconazole	60207-31-0	<del>}}                                   </del>	NA 105	Insecticide,	Azole
Panamal	17004 25 0		1222	Fungicide	
Benomyl Bitertanol	17804-35-2	99101	1552	Fungicide	Benzimidazole
Bromuconazole	55179-31-2	#####	NA 959	Fungicide	Azole
Carbendazim	116255-48-2	#####	NA 8	Fungicide	Azole
Carbendazim hydrochloride	10605-21-7	#####	2176	Fungicide	Benzimidazole
Carbendazim phosphate	37574-18-8	#####	NA 121	Fungicide	Benzimidazole
CGA-64251	52316-55-9	99102	1974	Fungicide	Benzimidazole
Chlorfenapyr	60207-93-4	#####	2452	Fungicide	Azole
Chlorflurazole	122453-73-0	#####	3938	Insecticide	Pyrazole
Cyazofamid	3615-21-2	#####	NA 139	N/A	Benzimidazole
· Cypendazole	120116-88-3	NA 216	NA 215	Fungicide	Azole
	28559-00-4	#####	NA 156	N/A	Benzimidazole
Cyproconazole Difenoconazole	94361-06-5	#####	5105	Fungicide	Azole
Diniconazole	119446-68-3	#####	5024	Fungicide	Azole
Diniconazole (stereochemistry	83657-18-5	#####	2500	Fungicide	Azole
unspecified)	83657-24-3	NA 200	NA 200	Fungicide	Azole
Fenapanil	61019-78-1	#####	2083	Fungicide	Azole
Fenbuconazole	114369-43-6	#####	3905	Fungicide	Azole
Fluotrimazole	31251-03-3	NA 207	NA 207	Fungicide	Azole
. Fluquinconazole	136426-54-5	NA 184	NA 183	Fungicide	Azole
Flusilazole	85509-19-9	#####	2278	Fungicide	Azole
Flutriafol	76674-21-0	#####	NA 107	Fungicide	Azole
Fuberidazole	3878-19-1	#####	NA 150	Fungicide	Benzimidazole
Furconazole	112839-33-5	NA 196	NA 196	Fungicide	Azole
Furconazole-cis	112839-32-4	NA 208	NA 207	Fungicide	Azole
Hexaconazole Imazalil	79983-71-4	#####	NA 23	Fungicide	Azole
Imazalil sulfate	35554-44-0	#####	2084	Fungicide	Azole
	58594-72-2	#####	NA 921	Fungicide	Azole
Imibenconazole Isoxachlortole	86598-92-7	NA 205	NA 204	Fungicide	Azole
Metconazole	141112-06-3	NA 232	NA 232	Herbicide	Cyclopropylisoxazole
Metronidazole	125116-23-6	#####	NA 101	Fungicide	Azole
Myclobutanil	443-48-1	#####	2208	Microbiocide	Azole
Naphthyl triazole stilbene	88671-89-0	###### NA 126	2245	Fungicide	Azole
monosulfonate	NA 742	NA 135	2698	N/A	Azole
Paclobutrazol	76738-62-0	#####	2259	Plant Growth Regulator	Azole
Penconazole	66246-88-6	#####	NA 109	Fungicide	Azole
Prochloraz	67747-09-5	#####	NA 29	Fungicide	Azole
Prochloraz - manganese	75747-77-2	#####	NA 104	Fungicide	Azole
complex (4:1)			<u> </u>		

Chemical Name	CAS Number	U.S. EPA PO	CA Chem	TT70	
	<u>GIID I I III I I I I I I I I I I I I I I</u>	Code	<u>Code</u>	Use Type	Chemical Class
Prochloraz zinc complex	NA 1555	NA 226	NA 226	Fungicide	<u> </u>
Propiconazole	60207-90-1	#####	2276		Azole
Pyrazoxyfen	71561-11-0	NA 189	NA 189	Fungicide	Azole
R 23 979 imazalil base	NA 451	NA 809		Herbicide	Pyrazole
TCMTB	21564-17-0	35603	2844 971	Fungicide	Azole
1	21304-17-0	. 33003	9/1	Microbiocide,	Mercaptobenzothiazo
Tebuconazole	107534-96-3	#####	3850	Fungicide	le
Tebufenpyrad	119168-77-3	90102	NA 845	Fungicide	Azole
Terrazole	2593-15-9	84701	580	Insecticide	Pyrazole
Tetraconazole	112281-77-3	#####		Fungicide	Azole
Thiabendazole	148-79-8	60101	NA 979	Fungicide	Azole
Thiabendazole, hypophosphite	28558-32-9	60102	587	Fungicide	Benzimidazole
salt	20330-32-9	60102	1952	Fungicide	Benzimidazole
Thiophanate	23564-06-9	#####	1684		
Thiophanate-methyl	23564-05-8	######		Fungicide	Benzimidazole
1	20001105-0	, <del>, , , , , , , , , , , , , , , , , , </del>	1696	Fungicide	Benzimidazole
Tolyl triazole	29395-43-1	NA 962	2950	N/A	precursor
Triadimefon	43121-43-3	#####	2133		Azole
Triadimenol	55219-65-3	#####	2307	Fungicide	Azole
		""""	2307	Fungicide, Breakdown	Azole
<u> </u>				product	
Triazbutil	16227-10-4	#####	NA 931	Fungicide	A - 1
Tricyclazole	41814-78-2	#####	5002	Fungicide	Azole
Triflumizole	68694-11-1	#####	2260	Fungicide	Azole
Triflumizole	99387-89-0	NA 201	NA 201	Fungicide	Azole
Triticonazole	131983-72-7	#####	NA 101	Fungicide	Azole
Uniconazole	83657-22-1	#####	NA 38	Plant Growth	Azole
			141130	Regulator	Azole
2-EEBC	62732-91-6	#####	1983	Fungicide	Benzimidazole
Benomyl	17804-35-2	99101	1552	Fungicide	Benzimidazole
Carbendazim	10605-21-7	#####	2176	Fungicide	Benzimidazole
Carbendazim hydrochloride	37574-18-8	#####	NA 121	Fungicide -	
Carbendazim phosphate	52316-55-9	99102	1974	Fungicide	Benzimidazole
Chlorflurazole	3615-21-2	#####	NA 139	N/A	Benzimidazole
Cypendazole	28559-00-4	#####	NA 156	N/A	Benzimidazole
Fuberidazole	3878-19-1	#####	NA 150	Fungicide	Benzimidazole
Thiabendazole	148-79-8	60101	587	Fungicide	Benzimidazole
Thiabendazole, hypophosphite	28558-32-9	60102	1952	Fungicide	Benzimidazole
salt		00102	1752	rungicide	Benzimidazole
Thiophanate	23564-06-9	#####	1684	Fungicide	Benzimidazole
Thiophanate-methyl	23564-05-8	#####	1696	Fungicide	Benzimidazole
			1050	1 ungicide	precursor
1-(3-	51971-67-6	#####	NA 110	N/A	Carboxamide
chlorophthalimido)cyclohexane					Carooxattitide
carboxamide				j	
Carboxin	5234-68-4	90201	1755	Fungicide	Carboxamide
Cisanilide	34484-77-0	#####	NA 144	Herbicide	Carboxamide
Cyclafuramide	34849-42-8	#####	NA 132	Fungicide	Carboxamide
Fenfuram	24691-80-3	NA 188	NA 187	Fungicide	Carboxamide
Furmecyclox (Xyligen B)	60568-05-0	#####	NA 18	Fungicide	Carboxamide
Methfuroxam	28730-17-8	#####	NA 949	Fungicide	Carboxamide
Metsulfovax	21452-18-6	NA 189	NA 188	Fungicide	Carboxamide
Nitrofurazone (not subject to	59-87-0	#####	NA 128	N/A	Carboxamide
FIFRA: 8709-e pm 24)					Caroovaninge
			<u></u>		

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u> </u>	Or ID THUMBOO	Code	Code	<u>Osc Type</u>	Chemical Class
Oxycarboxin	5259-88-1	90202	1434	Fungicide	Carboxamide
p-Benzoquinone	61566-21-0	#####	NA 133	N/A	Carboxamide
semicarbazone			1		Carooxamude
Chlozolinate	72391-46-9	NA 183	NA 182	Fungicide	Dicarboximide
Iprodione	36734-19-7	#####	2081	Fungicide	Dicarboximide
Myclozolin	54864-61-8	NA 209	NA 208	Fungicide	Dicarboximide
N-(2-Ethylhexyl)-1-isopropyl-	13358-11-7	#####	NA 121	Synergist	Dicarboximide
4-methyl-4-cyclohexene-1,2-				- 7	Dioutooximide
dicarboximide					
N-octyl bicycloheptene	113-48-4	57001	396	Synergist	Dicarboximide
dicarboximide					
Vinclozolin	50471-44-8	#####	2129	Fungicide	Dicarboximide
Calcium	5895-18-1	14501	NA 139	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)					
Cufraneb	11096-18-7	NA 181	NA 180	Fungicide	Dithiocarbamate
Diammonium	607313	14502	NA 140	Microbiocide	Dithiocarbamate
ethylenebis(dithiocarbamate)	11101 61 4	- 120			
Ferbam	14484-64-1	34801	288	Fungicide	Dithiocarbamate
Ferric nitroso dimethyl	83542-83-0	<del>#####</del>	NA 149	Microbiocide	Dithiocarbamate
dithiocarbamate	52000 02 5	37A 101	271 400		
Mancopper Mancozeb	53988-93-5	NA 181	NA 180	Fungicide	Dithiocarbamate
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate,
· Maneb	12427-38-2	14505	260	*	Inorganic-Zinc
Maneb and nickel sulfate	8005-46-7		369	Fungicide	Dithiocarbamate
hexahydrate (014505 +	8003 <del>-40-</del> 7	#####	NA 158	Fungicide	Dithiocarbamate,
050505)					Inorganic-Nickel
Manganous	15339-36-3	34802	NA 304	Fungicide	Dithiocarbamate
dimethyldithiocarbamate		0.002	1,2201	1 angioide	Diunocai bannate
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury,
dithiocarbamate					Heavy metal,
					Dithiocarbamate
Metam sodium, dihydrate	137-42-8	39003	NA 163	Fumigant,	Dithiocarbamate
·				Fungicide,	
				Microbiocide,	
				Algaecide,	
Metam-sodium	6734-80-1	20002		Nematicide	
Wetain-sodium	0/34-80-1	39003	616	Fumigant,	Dithiocarbamate
·				Herbicide,	
				Fungicide, Microbiocide,	
				Algaecide,	
				Nematicide	
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
					Inorganic-Zinc
Morpholinomethyl	31848-11-0	#####	NA 158	Microbiocide	Dithiocarbamate
dimethyldithiocarbamate					
Nabam	142-59-6	14503	417	Fungicide,	Dithiocarbamate
				Herbicide	
Phenylmercuric	32407-99-1	66008	NA 555	Microbiocide,	Organomercury,
dimethyldithiocarbamate	:			Fungicide	Dithiocarbamate,
Potassium ammonium	22221 14 2	14505	- NTA 444	3.6	Heavy metal
ethylenebis(dithiocarbamate)	22221-14-3	14507	NA 141	Microbiocide	Dithiocarbamate
Potassium dimethyl dithio	128-03-0	34902	1024	Minnelitati	D:41:
carbamate	120-03-0	34803	1934	Microbiocide	Dithiocarbamate
Jarounato					

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
	· · · · · · · · · · · · · · · · · · ·	<u>Code</u>	<u>Code</u>		
Potassium N-hydroxymethyl- N-methyldithio carbamate	51026-28-9	######	1824	N/A	Dithiocarbamate
Potassium N-methyldithio carbamate	137-41-7	39002	970	Fumigant, Fungicide, Microbiocide, Algaecide, Nematicide	Dithiocarbamate
Propineb	12071-83-9	#####	NA 155	Fungicide, Microbiocide	Dithiocarbamate, Inorganic-Zinc
Sodium dimethyl dithio carbamate	128-04-1	34804	548	Fungicide	Dithiocarbamate
Sulfallate	95-06-7	39001	115	Herbicide	Dithiocarbamate
Tert-butyl dimethyl trithio peroxycarbamate	3304-97-0	34807	1383	Rodent Repellent	Dithiocarbamate
Tert- butyldimethyltrithioperoxycarb amate, other related	NA 1130	NA 166	91383	N/A	Dithiocarbamate
Thiram	137-26-8	79801	589	Fungicide	Dithiocarbamate
Thiram and NAD and IBA and 2-methyl-1- naphthaleneacetamide and 2- methyl-1-naphthaleneacetic acid	75497-92-6	56011	NA 463	Fungicide, Plant Growth Regulator	Dithiocarbamate
Tricopper dichloride dimethyldithiocarbamate	7076-63-3	######	NA 152	Microbiocide	Dithiocarbamate, Inorganic-Copper
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate, Inorganic-Zinc
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate, Inorganic-Zinc
Ziram	137-30-4	34805	629	Fungicide, Microbiocide, Dog and Cat Repellent	Dithiocarbamate, Inorganic-Zinc
Ziram, cyclohexylamine complex	16509-79-8	34806	1328	Dog and Cat Repellent, Fungicide	Dithiocarbamate, Inorganic-Zinc
2,2'-Dithiobisbenzothiazole	120-78-5	9202	NA 109	Fungicide, Microbiocide, Insecticide	Mercaptobenzothiazo le
2-(dithiocyanomethylthio)- benzothiazole	NA 1346	NA 192	NA 191	Fungicide	Mercaptobenzothiazo le
2- (thiocyanomethylthio)benzothi azole with 2'-hydroxyethyl-2,3- dibromopropionate	79910-32-0	#####	NA 925	Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole	149-30-4	51701	556	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, 1- (hydroxyethyl)pyridinium salt	5468-43-9	51702	NA 423	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, ferric salt	53404-53-8	51708	NA 426	Fungicide, Microbiocide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, manganese salt	53404-58-3	9201	NA 108	Fungicide, Microbiocide, Insecticide	Mercaptobenzothiazo le
2-Mercaptobenzothiazole, monoethanolammonium salt	5902-85-2	51706	NA 424	Fungicide, Microbiocide	Mercaptobenzothiazo le

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Class
<u>Chemical Ivanic</u>	CAS Number	Code	Code	<u>Ose Type</u>	Chemical Class
2-Mercaptobenzothiazole,	7778-70-3	51707	NA 425	Fungicide,	Managartah
potassium salt	1110-10-5	31707	NA 425	Microbiocide	Mercaptobenzothiazo
2-Mercaptobenzothiazole,	2492-26-4	51704	3064	Microbiocide,	
sodium salt	2492-20-4	31704	3004	Fungicide	Mercaptobenzothiazo
2-Mercaptobenzothiazole,	2492-26-4	51704	613	Fungicide,	le Managartal a manufactura
sodium salt	2492-20-4	31704	013	Microbiocide	Mercaptobenzothiazo
2-Mercaptobenzothiazole, zinc	155-04-4	51705	1449		le
salt	155-04-4	31703	1449	Fungicide, Microbiocide	Mercaptobenzothiazo
5-Chloro-2-	5331-91-9	NA 200	NA 199	N/A	le, Inorganic-Zinc
mercaptobenzothiazole	3331-91-9	NA 200	NA 199	IN/A	Mercaptobenzothiazo
5-Chloro-2-	5406-97-3	51703	1238	Microbiocide	le Mercaptobenzothiazo
mercaptobenzothiazole, lauryl	3400-37-3	31703	1236	Micropiocide	l le
pyridinium salt					16
5-Chloro-2-	5406-97-3	NA 421	1597	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, lauryl	3400-77-3	147.721	1397	Fungicide	le
pyridinium salt				rungicide	16
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc	33404-33-0	. 31705	110.42/	Fungicide	le, Inorganic-Zinc
salt	i			rangicide	ie, morganic-zinc
TCMTB	21564-17-0	35603	971	Microbiocide,	Mercaptobenzothiazo
	21504-17-0	33003	9/1	Fungicide	le
Ancymidol	12771-68-5	<del>}                                    </del>	1744	Plant Growth	Pyrimidine
1 moyimaoi	12//1-00-3	, , , , , , , , , , , , , , , , , , ,	1/44	Regulator	Pyrimidine
Bupirimate	41483-43-6	#####	2430	Fungicide	Pyrimidine
Cloransulam	159518-97-5	NA 231	NA 231	Herbicide	
Cloransulam-methyl	147150-35-4	######	NA 112		Triazolopyrimidine
Dimethirimol	5221-53-4	#####		Herbicide	Triazolopyrimidine
Ethirimol			NA 128	Fungicide	Pyrimidine
	23947-60-6	#####	NA 129	Fungicide	Pyrimidine
Fenarimol	60168-88-9	######	1980	Fungicide	Pyrimidine
Ferimzone	89269-64-7	NA 203	NA 202	Fungicide	Pyrimidine
Flurprimidol	56425-91-3	#####	2320	Plant Growth	Pyrimidine
N	62004 71 0	1, 1, 1, 1, 1		Regulator	
Nuarimol	63284-71-9	<del>}       </del>	NA 126	Fungicide	Pyrimidine
Pyrimethanil	53112-28-0	<del>#####</del>	NA 30	Fungicide	Pyrimidine
Azoxystrobin	131860-33-8	#####	4037	Fungicide	Strobin
Dimoxystrobin	149961-52-4	NA 211	NA 210	Fungicide	Strobin
Kresoxim-methyl	143390-89-0	#####	5451	Fungicide	Strobin
Metominostrobin	133408-50-1	NA 211	NA 210	Fungicide	Strobin
Picoxystrobin	117428-22-5	NA 211	NA 210	Fungicide	Strobin
Pyraclostrobin	175013-18-0	NA 211	NA 210	Fungicide	Strobin
Trifloxystrobin	141517-21-7	#####	5321	Fungicide	Strobin
Chloroneb	2675-77-6	27301	135	Fungicide	Substituted Benzene
Chlorothalonil	1897-45-6	81901	677	Fungicide	Substituted Benzene
Dichlobenil	1194-65-6	27401	112	Herbicide	Substituted Benzene
Dichloran	99-30-9	31301	81	Fungicide	Substituted Benzene
PCNB	82-68-8	56502	464	Fungicide,	
I CIVE	02-00-0	30302	404		Substituted Benzene
	1			Nematicide,	
PCNB, other related	NA 1100	NA 163	90464	Algaecide	Cultural true 170
1 Oldo, onto lorated	147 1100	INT 103	30 <del>404</del>	Fungicide,	Substituted Benzene
1	1			Algaecide, Nematicide	
Captafol	190444	81702	NA 787		This let 1' '1
Captafol (cis isomer)				Fungicide	Thiophthalimide
Captaio (cis isomer)  Captan	2939-80-2	81701	292	Fungicide	Thiophthalimide
	133-06-2	81301	104	Fungicide	Thiophthalimide
Captan, other related	NA 1074	NA 161	90104	Fungicide	Thiophthalimide

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	<u>Code</u>		
Folpet	133-07-3	81601	294	Fungicide	Thiophthalimide
Merpafol cis isomer	190444	81701	NA 163	Fungicide	Thiophthalimide
Benalaxyl	71626-11-4	#####	NA 102	Fungicide	Xylylalanine
Furalaxyl	57646-30-7	NA 188	NA 188	Fungicide	Xylylalanine
L-Metalaxyl	69516-34-3	#####	NA 929	Fungicide	Xylylalanine
Mefenoxam	70630-17-0	<del>#####</del>	4011	Fungicide	Xylylalanine
Mefenoxam, other related	NA 1152	NA 168	94011	Fungicide	Xylylalanine
Metalaxyl	57837-19-1	#####	2132	Fungicide	Xylylalanine
Metalaxyl-M	70630-17-0	NA 219	NA 218	Fungicide	Xylylalanine
1-(Alkyl* amino)-3-	61791-67-1	67311	NA 586	Microbiocide	Alkyl Amino Propane
aminopropane *(47%C12, 18%C14, 10%C18, 9%C10, 8%C16, 8%C8)	-				_
1-(Alkyl* amino)-3-	61791-63-7	67301	NA 583	Microbiocide	Alkyl Amino Propane
aminopropane *(as in fatty					
acids of coconut oil)					
1-(Alkyl* amino)-3- aminopropane diacetate *(37%C18', 29%C16, 23%C18, 3%C16', 3%C14, 1.5%C18", 1%C14', 1%C12, 0.5%C15)	68911-78-4	67306	NA 585	Microbiocide	Alkyl Amino Propane
1-(Alkyl* amino)-3-	NA 1191	67313	NA 167	Microbiocide	Alkyl Amino Propane
aminopropane diacetate *(as in					_
fatty acids of coconut oil)	· · · · · · · · · · · · · · · · · · ·				
1-(Alkyl* amino)-3-	NA 1192	67319	NA 167	Microbiocide,	Alkyl Amino Propane
aminopropane monoacetate *(47%C12, 18%C14, 10%C18,				Algaecide	
9%C10, 8%C16, 8%C8)					
1-(Alkyl* amino)-3-	NA 1193	67304	NA 167	Microbiocide	A11-1 A ' D
aminopropane propionate-	1175	07304	NA 107	Micropiocide	Alkyl Amino Propane
copper acetate complex					
1-(alkyl-amino)-3-	NA 1494	NA 221	NA 221	Microbiocide	Alkyl Amino Propane
aminopropane hydrochloride			1111111	1,220100100100	They runno 1 topane
1-(alkylamino)-3-	68155-37-3	67310	1830	Microbiocide	Alkyl Amino Propane
aminopropane					1 mily 1 millio 1 repulse
1-(alkylamino)-3-	NA 1495	NA 221	NA 221	Microbiocide	Alkyl Amino Propane
carboxymethylaminopropane					,
1-Alkyl (C6 to C18) amino-3-	NA 994	NA 721	2365	Microbiocide	Alkyl Amino Propane
aminopropane acetate					-
1-alkyl (C6-C18) amino-3-	61791-64-8	67302	1954	Microbiocide	Alkyl Amino Propane
aminopropane diacetate					
1-alkylamino-2-aminopropane	61791-64-8	67302	1335	Microbiocide	Alkyl Amino Propane
monoacetate, alkyl derived from coconut oil fatty acids					
1-Alkylamino-3-aminopropane	60155 42 1	67200	1070	3.61 11 11	
hydroxyacetate, alkyl derived	68155-43-1	67309	1972	Microbiocide,	Alkyl Amino Propane
from coconut oil fatty acids				Soap/Surfactant	
Alkyl (53%C12, 19%C14,	61791-58-0	67305	1780	Microbiocide	Alkyl Amino Propane
8.5%C16, 7%C8, 6.5%C10,	22.71.20.0	0,505	1,00	**************************************	Trwy villing Propane
6%C18)-1,3-propane diamine					
Alkyl-1,3-propylene diamine	61790-63-7	NA 558	1380	Microbiocide,	Alkyl Amino Propane
acetate, alkyl derived from				Soap/Surfactant	,
coconut oil fatty acids					
Alkyl-1,3-propylene diamine	68155-42-0	#####	1841	Microbiocide,	Alkyl Amino Propane
adipate, alkyl derived from				Soap/Surfactant	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chomical Cl
	<u> </u>	Code	Code	Osc Type	Chemical Class
coconut oil fatty acids					
Alkyl-1,3-propylene diamine,	NA 287	NA 559	1379	Microbiocide,	Alkyl Amino Propane
alkyl derived from coconut oil				Soap/Surfactant	,
fatty acids N-(2-cyanoethyl)-N-alkyl (C6-	274 100	(700)			
C18)-1,3-diamino propane	NA 187	67321	1957	Adjuvant	Alkyl Amino Propane
N-Alkyl-1,3-propylene diamine	68188-29-4	67307	1735	Microbiocide,	A11-1 A 7
monobenzoate, alkyl derived	00100 25 1	0,50,	1733	Soap/Surfactant	Alkyl Amino Propane
from coconut oil fatty acids		·		Soup, Surfactant	
Tall oil fatty acid soap of N-	61790-55-4	NA 924	3463	Microbiocide,	Alkyl Amino Propane
alkyl (C16-C18) propyl diamine				Insecticide	
2,2'-Methylenebis(4,6-	1940-43-8	55004	274 455	7.51	
dichlorophenol)	1940-43-8	55004	NA 455	Microbiocide	Chlorinated Phenol
2,2'-Thiobis(4,6-	97-18-7	64201	NA 539	N/A	Chloringto J.Dl 1
dichlorophenol)		0.201	1421 333	19/25	Chlorinated Phenol
2,2,2-Trichloro-N-	3583-63-9	#####	NA 151	N/A	Chlorinated Phenol
(pentachlorophenyl)acetimidoy					
l chloride 2,2-methylene bis(4,6-	(0057 70 0	55006			•
dichlorophenol), sodium salt	68957-70-0	55006	1843	Microbiocide	Chlorinated Phenol
2,3,4,6-tetrachlorophenol,	53535-27-6	63007	1725	Wood	Ohla i a da da da
potassium salt	10000 2. 0	02007	1,23	Preservative,	Chlorinated phenol
			•	Fungicide	•
2,4,5-trichlorophenol	95-95-4	64210	1382	Microbiocide,	Chlorinated phenol
2,4,5-Trichlorophenol salt of	52404.00.4			Algaecide	
2,4,3-111cmotophenor sait of 2,6-	53404-83-4	64211	NA 542	N/A	Chlorinated Phenol
bis((dimethylamino)methyl)cyc					
lohexanone			,	ļ	
2,4,5-trichlorophenol,	35471-43-3	64204	1050	Microbiocide	Chlorinated phenol
potassium salt					
2,4,5-trichlorophenol, potassium salt, other related	NA 1128	NA 166	91050	Microbiocide	Chlorinated phenol
2,4,5-trichlorophenol, sodium	136-32-3	64217	1656	) (: 1: · · ·	
salt	150-52-5	04217	1030	Microbiocide	Chlorinated phenol
2,4,5-Trichlorophenol, sodium	3784-03-0	64220	NA 545	Microbiocide,	Chlorinated Phenol
salt				Algaecide	Chiormated r nenor
2,4,6-trichlorophenol	88-06-2	64212	640	Microbiocide	Chlorinated phenol
2,4-dichlorophenol	120-83-2	NA 105	2499	N/A	Chlorinated phenol
2-(trichlorophenoxy)ethyl hydrogen sulfate	69633-04-1	#####	NA 152	Herbicide	Chlorinated Phenol
2-chloro-4-phenylphenol	92-04-6	62206	846	34:- 1: :1	011
2-chloro-4-phenylphenol,	18128-16-0	62207	1061	Microbiocide  Microbiocide	Chlorinated Phenol
potassium salt	10120 10 0	02207	1001	Micropiocide	Chlorinated Phenol
2-chloro-4-phenylphenol,	31366-97-9	62215	1632	Microbiocide	Chlorinated Phenol
sodium salt					
2-Chlorophenol	95-57-8	62204	NA 504	Microbiocide	Chlorinated Phenol
3-chloro-2-biphenylol, sodium salt	10605-11-5	62213	NA 505	Microbiocide	Chlorinated Phenol
4 & 6 - chloro-2-phenylphenol	NA 964	NIA 410	1500	36: 1: ::	
4 & 6 - chloro-2-phenylphenol,	NA 965	NA 419 NA 420	1566 1604	Microbiocide  Microbiocide	Chlorinated Phenol
potassium salts, mixed		1111 720	1004	MICLODIOCIDE	Chlorinated Phenol
4 & 6 - chloro-2-phenylphenol,	NA 963	NA 413	1594	Microbiocide	Chlorinated Phenol
sodium salts, mixed					
4 & 6-chloro-2-phenylphenol,	NA 1132	NA 166	91566	Microbiocide	Chlorinated phenol

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	Ott Tipe	Oncimical Class
other related					
4 or 6-chloro-2-phenylphenol	53537-62-5	62216	NA 507	Microbiocide	Chlorinated Phenol
4 or 6-chloro-2-phenylphenol,	53537-63-6	62214	NA 506	Microbiocide	Chlorinated Phenol
diethanolamine salt					
4,6-dichloro-2-phenylphenol	5335-24-0	64216	1062	Microbiocide	Chlorinated phenol
4,6-dichloro-2-phenylphenol,	53404-30-1	64215	1059	Microbiocide	Chlorinated phenol
potassium salt					
4-chloro-2-cyclopentyl phenol,	35471-38-6	64214	1237	Microbiocide,	Chlorinated phenol
potassium salt		-		Fungicide	
4-chloro-2-cyclopentylphenol	13347-42-7	64202	836	Microbiocide,	Chlorinated phenol
4 -11 2 -1111	(07.10.5			Fungicide	
4-chloro-2-phenylphenol	607-12-5	62208	945	Microbiocide	Chlorinated Phenol
4-chloro-2-phenylphenol, potassium salt	53404-21-0	62209	947	Microbiocide	Chlorinated Phenol
4-chloro-2-phenylphenol,	10605-10-4	62212	046	3.6: 1: 11	611
sodium salt	10005-10-4	62212	946	Microbiocide	Chlorinated Phenol
4-chloro-cyclopentylphenol,	53404-20-9	64218	1395	Microbiocide,	Chlorinote I
sodium salt	33404-20-9	04218	1393	Fungicide	Chlorinated phenol
6-chloro-2-phenylphenol	85-97-2	62210	948	Microbiocide	Chlorinated Phenol
6-chloro-2-phenylphenol,	18128-17-1	62211	950	Microbiocide	Chlorinated Phenol
potassium salt	10120 17 1		730	Wholoblocide	Chiormated Phenor
6-chloro-2-phenylphenol,	63992-41-6	NA 414	949	N/A	Chlorinated phenol
sodium salt					omormatoa phonor
6-chlorothymol	89-68-9	80403	NA 775	N/A	Chlorinated Phenol
6-tert-Butyl-4-chloro-m-cresol	30894-16-7	######	NA 127	Microbiocide	Chlorinated Phenol
Chlorbisan	4418-66-0	64208	127	Microbiocide	Chlorinated Phenol
Chloroxylenol	88-04-0	86801	925	Microbiocide	Chlorinated phenol
Copper pentachlorophenate	15773-35-0	63011	NA 512	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Copper
				Microbiocide,	
				Algaecide,	
Daladadadada	25100 55 0	4000		Fungicide	
Dehydroabietylamine pentachlorophenate	35109-57-0	4202	NA 72	Wood	Chlorinated Phenol
pentacmorophenate				Preservative, Microbiocide,	
				Algaecide,	
· ' '				Fungicide	
Dichlorophene	97-23-4	55001	206	Herbicide,	Chlorinated Phenol
•				Fungicide,	Cinormated I henor
				Microbiocide	
Disodium 2,2'-	3247-34-5	44903	NA 380	N/A	Chlorinated Phenol
methylenebis(3,4,6-				,	
trichlorophenate)					
Ethylmercury	22232-28-6	41504	NA 359	Microbiocide	Organomercury,
pentachlorophenate					Chlorinated Phenol,
Fenticlor	07.24.5	64000	NYA C44	3.7. 1	Heavy metal
Hexachlorophene	97-24-5	64209	NA 541	Microbiocide	Chlorinated Phenol
Пехасиюториене	70-30-4	44901	322	Microbiocide,	Chlorinated Phenol
Hexachlorophene, sodium salt	5736-15-2	44902	413	Fungicide Microbiocide	Chloringte 1 Di 1
Ortho-benzyl-para-	120-32-1	62201	522	Microbiocide,	Chlorinated Phenol
_ chlorophenol	120-32-1	02201	JLL	Fungicide	Chlorinated phenol
Ortho-benzyl-para-	35471-49-9	62202	936	Microbiocide	Chlorinated phenol
chlorophenol, potassium salt	001,71,40-9	02202	730	14110100100100	отогтатей риспот
Ortho-benzyl-para-	3184-65-4	62203	937	Microbiocide,	Chlorinated phenol
chlorophenol, sodium salt				Fungicide	-moramica pitettoi
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Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		
Para-chloro-meta-cresol	59-50-7	64206	1813	Microbiocide, Fungicide	Chlorinated Phenol
para-Chloro-ortho-cresol	1570-64-5	62190	NA 503	N/A	Chlorinated Phenol
Para-chlorophenol	106-48-9	NA 124	1572	N/A	Chlorinated phenol
PCP	87-86-5	63001	465	Wood Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide,	Chlorinated Phenol
PCP, other related	NA 1101	NA 163	90465	Herbicide Wood	Chlorinated Phenol
1 Ox, outor rotatou	TWI TWI	NA 103	90403	Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	Chlorinated Phenoi
PCP, potassium salt	7978-73-6	63002	1049	Wood	Chlorinated Phenol
				Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	
PCP, sodium salt	131-52-2	63003	540	· Wood	Chlorinated Phenol
	<i>.</i>			Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	
PCP, sodium salt, other related	NA 1110	NA 164	90540	Wood	Chlorinated Phenol
				Preservative, Microbiocide, Algaecide, Fungicide, Molluscicide	·
Pentachlorophenol, zinc salt	2917-32-0	63008	NA 510	Wood Preservative, Microbiocide, Algaecide, Fungicide	Chlorinated Phenol, Inorganic-Zinc
Pentachlorophenyl laurate	3772-94-9	63010	NA 511	Wood Preservative, Microbiocide, Algaecide, Fungicide	Chlorinated Phenol
Potassium 2,2'- methylenebis(3,4,6- trichlorophenate)	67923-62-0	44904	NA 381	Microbiocide	Chlorinated Phenol
Potassium 2,4,6- trichlorophenate	2591-21-1	64219	NA 544	Microbiocide	Chlorinated Phenol
Potassium ortho-cyclopentyl- para-chlorophenate	35471-38-6	64214	1542	Microbiocide, Fungicide	Chlorinated phenol
Sodium 2,2'-methylenebis(4- chlorophenate)	10254-48-5	55005	NA 456	Insecticide, Fungicide, Microbiocide	Chlorinated Phenol
Sodium chlorophenates	35535-81-0	62205	773	N/A	Chlorinated Phenol
Sodium dichlorophenate	NA 1399	NA 197	NA 196	Fungicide,	Chlorinated Phenol

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Igo Tour	T
<u> </u>	Ozto Ivanioci	Code	Code	Use Type	Chemical Class
			,0000	Microbiocide	
Sodium p-chloro-m-cresolate	15733-22-9	64205	NA 540	Microbiocide	Chlorinated Phenol
Tetrachlorophenol	25167-83-3	63004	777	Wood	Chlorinated phenol
				Preservative,	omormated phonor
The state of the s				Fungicide	
Tetrachlorophenol, alkylamine	NA 1007	NA 938	1401	Wood	Chlorinated phenol
salt				Preservative,	
Tetrachlorophenol, coconut	NA 1008	NA 939	1455	Fungicide	011
amine salt	1471 1000	NA 939	1433	Wood Preservative,	Chlorinated phenol
				Fungicide	
Tetrachlorophenol, other	NA 1118	NA 165	90777	Wood	Chlorinated phenol
related				Preservative,	phonor
Totachianahanalanah	50505 07 6			Fungicide	
Tetrachlorophenol, potassium salt	53535-27-6	63007	1753	Wood	Chlorinated phenol
, sait				Preservative,	
Tetrachlorophenol, sodium salt	25567-55-9	63005	776	Fungicide Wood	Chi-i
1	2330, 33.9	05005	770	Preservative,	Chlorinated phenol
				Fungicide	
Tetrachlorophenol, sodium salt,	NA 1117	NA 165	90776	Wood	Chlorinated phenol
other related			•	Preservative,	<b></b>
Totrochloreshousts 11-14	127542 52 5	40.0		Fungicide	
Tetrachlorophenols, alkyl* amine salt *(as in fatty acids of	137543-70-5	63006	NA 509	Wood	Chlorinated Phenol
coconut oil)				Preservative,	
Trichlorophenol	95-95-4	64210	1189	Fungicide Microbiocide,	Chlaminata I I I
		04210	1109	Algaecide	Chlorinated phenol
Trichlorophenol, sodium salt	136-32-3	64217	960	Microbiocide,	Chlorinated phenol
Trichlorophenol, sodium salt,	NA 1127	NA 166	90960	Algaecide Microbiocide	Chlorinated phenol
other related			70700	1411ClODIOCIDE	Cmormated phenor
Triclosan	3380-34-5	54901	1371	Microbiocide	Chlorinated Phenol
Vancide 30-R	6385-58-6	64203	612	Microbiocide	Chlorinated Phenol
Zinc 2,4,5-trichlorophenate	136-24-3	64221	NA 546	N/A	Chlorinated Phenol,
Zinc trichlorophenate	20142.00.7	- (1010			Inorganic-Zinc
Zinc dichiorophenate	30143-22-7	64213	NA 543	Microbiocide	Chlorinated Phenol,
1,3-bis (dihydroxymethyl)-5,5-	6440-58-0	#####	2298	Fungicide,	Inorganic-Zinc
dimethylhydantoin	0140-50-0	"""""	2290	Herbicide,	Hydantoin
				Microbiocide	
1,3-dibromo-5,5-	77-48-5	6317	4036	Microbiocide,	Hydantoin
dimethylhydantoin				Fungicide,	,
1,3-dichloro-5,5-	110.50.5			Herbicide	
dimethylhydantoin	118-52-5	28501	37	Microbiocide,	Hydantoin
dimonification	1			Fungicide,	
1,3-Dichloro-5-ethyl-5-	89415-87-2	#####	2264	Herbicide Microbiocide,	Undantai
methylhydantoin			2207	Fungicide,	Hydantoin
				Herbicide	
1-bromo-3-chloro-5,5-dimethyl	16079-88-2	6315	2080	Microbiocide,	Hydantoin
hydantoin				Fungicide,	
1-Hydroxymethyl-5,5-dimethyl	116.05.6	77,77,77		Herbicide	
hydantoin	116-25-6	#####	2306	Fungicide,	Hydantoin
Junion				Herbicide, Microbiocide	
				MICLODIOCIDE	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	L	
3-Bromo-1-chloro-5,5- dimethylhydantoin	126-06-7	6322	NA 92	Microbiocide, Fungicide, Herbicide	Hydantoin
3-Hydroxymethyl-5,5-dimethyl hydantoin	NA 1478	NA 220	NA 219	Fungicide	Hydantoin
Dimethylol dimethyl hydantoin	6440-58-0	#####	2524	Fungicide, Herbicide, Microbiocide	Hydantoin
Acetalized polyvinyl alcohol complexed with iodine	NA 1185	46926	NA 166	Microbiocide	Iodine Compound
Alkyl (29%C14, 29%C13, 21%C12, 21%C15) poly(oxypropylene) poly (oxyethylene) - iodine complex	NA 973	NA 557	2063	Microbiocide	Iodine Compound
Alkyl (C12-C15)- poly(oxypropylene) poly(oxyethylene) - iodine complex	NA 972	NA 556	1734	Microbiocide	Iodine Compound
Alkyl(C12-C15) poly(oxypropylene)poly(oxyet hylene)-iodine complex	NA 1195	46918	NA 168	Microbiocide	Iodine Compound
Alkyl* (ethyl cycloimidinium) 3-hydroxy-3-ethyl sodium alcoholate, 2-methyl sodium carboxylate-tridecyl polyoxyethylene ethanol	NA 1211	46906	NA 169	Microbiocide	Iodine Compound
Alkyl* dimethyl 3,4- dichlorobenzyl ammonium chloride polyethoxypolypropoxypolyeth oxyethanol - iodine complex *(50%C12, 30%C14, 1	NA 1198	46907	NA 168	Microbiocide, Microbiocide	Iodine Compound, Quaternary Ammonium Compound
Alkyl* poly(oxypropylene)poly(oxyet hylene)-iodine complex *(43%C10, 30%C14, 12%C12, 10%C16, 5%C18)	NA 1214	46925	NA 170	Microbiocide	Iodine Compound
Butoxy polypropoxy polyethoxy ethanol - iodine complex	68610-00-4	46901	1633	Microbiocide	Iodine Compound
Diethanolamine myristate - iodine complex	53404-40-3	46910	NA 406	Microbiocide	Iodine Compound
Iodophors	39392-86-4	NA 213	NA 212	Microbiocide	Iodine Compound
Nonyl phenoxy poly (oxyethylene) amine sulfonate ethanol - iodine	NA 927	NA 39	1610	Microbiocide	Iodine Compound
Nonyl phenoxy polyoxyethylene ethanol-iodine complex	35860-86-7	46903	870	Microbiocide	Iodine Compound, Polyalkyloxy Compound
Octylphenoxy polyethoxy ethanol - iodine complex	53404-04-9	46915	2172	Microbiocide, Fungicide, Herbicide	Iodine Compound
Poly oxyethylene ethanol monoesters of 5- (and 6-) carboxy-4-hexyl-2- cyclohexene-1-octanoic acid, complex with iodine	82010-75-1	46924	2261	Microbiocide	Iodine Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u> </u>	Chomical Class
Poly propoxy poly ethoxy ethanol, I2 complex	NA 232	NA 453	1828	Microbiocide	Iodine Compound
Polyethoxy polypropoxy polyethoxy ethanol - iodinė complex	26617-87-8	46904	1585	Microbiocide	Iodine Compound
Polyethoxy polypropoxy polyethoxy ethanol - iodine complex	NA 1286	46909	NA 174	Microbiocide	Iodine Compound
Polyethoxypolypropoxypolyeth oxyethanol-n-alkyl (54% C12, 18% C14, 9% C16, 9% C18, 5% C10, 5% C8) di(beta- hydroxyethyl) benzyl am	NA 1287	46913	NA 175	Microbiocide	Iodine Compound, Quaternary Ammonium Compound
Polyethylene glycol ether of linear secondary alcohol - iodine complex	68439-47-4	46921	2121	Microbiocide	Iodine Compound
Polyvinyl pyrrolidone - iodine complex	25655-41-8	46914	1611	Microbiocide	Iodine Compound
Sodium dodecylbenzene sulfonate - iodine complex	53467-01-9	46920	1569	Microbiocide	Iodine Compound
Sodium N-alkyl-N-palmitoyl taurate-iodine complex	NA 290	NA 562	1568	Microbiocide	Iodine Compound
Sodium N-cyclohexyl-N- palmitoyl taurate - iodine complex	53404-81-2	46919	2089	Microbiocide	Iodine Compound
Tetraglycine hydroperiodide	7097-60-1	46923	1923	Microbiocide	Iodine Compound
Tridecylpoly(ethyleneoxy)etha nol - iodine complex	53404-05-0	46911	NA 407	Microbiocide	Iodine Compound
Triethanolamine octylsulfate - iodine complex	82010-77-3	46922	NA 409	Microbiocide	Iodine Compound
2-(4-chlorophenylmethyl)- 3(2H)-isothiazolone	26530-09-6	#####	NA 125	Microbiocide	Isothiazolone
2-cyclohexyl-4,5-dichloro-4- isothiazolin-3-one	57063-29-3	<del>}         </del>	NA 166	Insecticide	Isothiazolone
2-cyclohexyl-4,5-dichloro-4- isothioazolin-3-one	57063-29-3	#####	NA 938	Insecticide	Isothiazolone
2-Methyl-3(2H)-isothiazolone, calcium chloride complex	57373-20-3	######	NA 895	Microbiocide	Isothiazolone
2-methyl-4,5-trimethylene-4- isothiazolin-3-one	82633-79-2	#####	5013	Microbiocide	Isothiazolone
2-methyl-4-isothiazolin-3-one	2682-20-4	#####	2039	Microbiocide	Isothiazolone
3(2H)-chloro-2-methyl-3(2H)- isothiazolone, calcium chloride complex	57373-19-0	#####	NA 894	Microbiocide	Isothiazolone
4,5-dichloro-2-n-octyl-3(2H)-isothiazolone	64359-81-5	#####	3982	Microbiocide, Antifoulant	Isothiazolone
4-chloro-2-n-octyl-3(2H)- isothiazolone	64359-80-4	#####	NA 102	Microbiocide	Isothiazolone
5-chloro-2-((4- chlorophenyl)methyl)-3(2H)- isothiazolone, compd. With 2- ((4-chlorophenyl)methyl)- 3(2h)-isothiazolone (1:1)	83542-80-7	##### -	NA 125	Microbiocide	Isothiazolone
5-chloro-2-(4- chlorophenylmethyl)-3(2H)- isothiazolone	66159-95-3	#####	NA 125	Microbiocide	Isothiazolone

Chemical Name	CAS Number	II C EDA DO	CA Cham	77 (0)	1
<u>Chemical Ivallie</u>	<u>CAS Number</u>	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
5-chloro-2-methyl-4- isothiazolin-3-one	26172-55-4	#####	2038	Microbiocide	Isothiazolone
5-chloro-2-methyl-4- isothiazolin-3-one calcium chloride with 2-methyl-4- isothazolin-3-one calcium chloride	55965-87-2	######	NA 896	Microbiocide	Isothiazolone
Kathon 886 (kathon biocide)	55965-84-9	#####	NA 24	Microbiocide	Isothiazolone
Octhilinone	26530-20-1	99901	1881	Microbiocide, Fungicide	Isothiazolone
2,4,6-triisopropyl phenol	376389	NA 116	3492	N/A	Phenols
2,4-xylenol	105-67-9	86804	638	Solvent, Fungicide, Microbiocide	Phenols
2,6-bis (1-methyl heptadecyl)- p-cresol	5012-62-4	NA 106	3069	Microbiocide	Phenols
2-tert-Amylphenol	87-26-3	64119	NA 538	Microbiocide	Phenols
4-Hexylresorcinol	136-77-6	71403	NA 671	N/A	Phenols
4-Octylresorcinol	6565-70-4	71402	NA 670	N/A	Phenols
5-isopropyl-o-cresol	499-75-2	22104	1877	Microbiocide	Phenols
Butylated hydroxy toluene	128-37-0	22105	1309	Preservative	Phenols
Carbolic acid	108-95-2	64001	107	Microbiocide, Nematicide	Phenols
Coal tar phenols	1319-77-3	22101	1720	N/A	Petroleum derivative, Phenols
Cresol	1319-77-3	NA 219	NA 218	Insect Repellent, Microbiocide	Phenols
Diisobutyl cresoxy ethoxy ethyl dimethyl benzyl ammonium chloride- ortho- phenylphenol ethoxy nonyl phenol complex	53466-87-8	69155	1643	Microbiocide	Phenols .
Diisopropyl cresol	31291-59-5	22107	NA 176	Microbiocide	Phenols
Diisopropyl phenols	NA 170	NA 329	3638	N/A	Phenols
Hydroxymercury cresol	12379-66-7	46001	NA 390	Microbiocide	Inorganic-Mercury, Heavy metal, Phenols
Isopropyl cresol	499-75-2	22104	1161	Microbiocide	Phenols
Isopropyl phenol	25168-06-3	NA 155	3256	Microbiocide	Phenols
Meta-cresol	108-39-4	22102	378	Microbiocide	Phenols
Nonyl phenol	25154-52-3	NA 44	3304	Adjuvant	Phenols
o-cresol	95-48-7	NA 374	3113	Microbiocide	Phenols
o-Phenylphenol, alkyl* amine - zinc salt of *(100% C18)	82010-74-0	64107	NA 533	Microbiocide	Phenols, Inorganic-
o-Phenylphenol, tetradecylamine salt	53404-71-0	64109	NA 534	Microbiocide	Phenols
Octylphenol	27193-28-8	64118	NA 537	N/A	Phenols
Ortho-phenylphenol	90-43-7	64103	448	Microbiocide	Phenols
Ortho-phenylphenol, ammonium salt	52704-98-0	64116	890	Microbiocide	Phenols
Ortho-phenylphenol, potassium salt	13707-65-8	64108	935	Microbiocide	Phenols
Ortho-phenylphenol, sodium salt	132-27-4	64104	248	Microbiocide	Phenols
p-cresol	106-44-5	NA 375	3114	Microbiocide	Phenols

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	77. 77	
Guernicai i tame	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
p-Cresyl acetate	140-39-6	NA 186	NA 186	Microbiocide	701 1
Para-tert-amylphenol	80-46-6	64101	900	Microbiocide	Phenols
Para-tert-amylphenol,	53404-18-5	64111	1056	Microbiocide	Phenols
potassium salt	55.57.205	0	1030	MICLODIOCIDE	Phenols
Para-tert-butylphenol	98-54-4	64113	1000	Microbiocide	Phenols
Phenol, dodecyl-, mixed	27193-86-8	NA 656	3323	N/A	Phenois
isomers				****	I Hellois
Phenol, ferrous salt	NA 686	NA 126	1862	N/A	Phenols
Phenols	64743-03-9	NA 189	NA 189	Microbiocide,	Phenols
				Herbicide	- 11011010
Polyvinylpyrrolidone-	53403-98-8	64110	NA 535	Microbiocide	Phenois
orthophenylphenol complex	1010				
Propoxur phenol	4812-20-8	#####	NA 118	Breakdown	Phenols
Resorcinol	100 46 2			product	
Sodium cresolate	108-46-3 34689-46-8	71401	3375	N/A	Phenols
Sodium para-tert-amylphenate		#####	NA 142	Microbiocide	Phenols
Para-tert-amylphenate	31366-95-7	64112	1541	Microbiocide,	Phenols
Sodium para-tert-butylphenate	5787-50-8	64115	1540	Fungicide	
Sodium phenate	139-02-6	64002	2164	Microbiocide	Phenols
Thymol	89-83-8	80402		Microbiocide	Phenols
Xylenol (unspec. Or mixed	1300-71-6	86805	991 NA 837	Dye	Phenols
from 086804)	1500-71-0	60805	1VAL 05 /	N/A	Phenols
2-(2-(p-(diisobutyl) phenoxy)	121-54-0	69122	66	Microbiocide	Oustamanu
ethoxy) ethyl dimethyl		-,	00	MICIODIOCIDE	Quaternary Ammonium
ammonium chloride					Compound
2-(2-(p-(diisobutyl) phenoxy)	121-54-0	69164	NA 166	Microbiocide	Quaternary
ethoxy) ethyl dimethyl					Ammonium
ammonium chloride					Compound
3-(trimethoxysilyl) propyl dimethyl octadecyl ammonium	27668-52-6	#####	2127	Microbiocide	Quaternary
chloride					Ammonium
3-alkoxy (C12-C15)-2-	68187-63-3	#####	2020	27/4	Compound
hydroxypropyl trimethyl	00107-03-3	*********	2020	N/A	Quaternary
ammonium chloride				İ	Ammonium
Acylamido alkylbenzyl	NA 993	NA 705	1442	Algaecide,	Compound
dimethyl ammonium chloride	1.1.1220	141705	1442	Microbiocide	Quaternary Ammonium
				112101001001dC	Compound
Alkenyl (90%C18, 10%C16)	NA 1313	NA 123	1243	Microbiocide,	Quaternary
dimethyl ethyl ammonium	ł			Adjuvant	Ammonium
bromide					Compound
Alkenyl* dimethyl ethyl ammonium bromide	6458-13-5	69102	NA 620	Algaecide,	Quaternary
*(90%C18', 10%C16')	į	İ		Microbiocide	Ammonium
Alkenyl* dimethyl ethyl	NA 1107	60100	374 7.55	3.51	Compound
ammonium bromide	NA 1187	69198	NA 167	Microbiocide	Quaternary
*(90%C18', 10%C16')					Ammonium
Alkyl (100%C14) dimethyl	139-08-2	69107	2373	Algaecide,	Compound
benzyl ammonium chloride		0,10,	2313	Microbiocide	Quaternary Ammonium
					Compound
Alkyl (47%C12, 18%C14,	NA 986	69143	1970	Algaecide,	Quaternary
10%C18, 10%C16, 15%C8-				Microbiocide	Ammonium
C10) dimethylbenzyl					Compound
ammonium chloride					
Alkyl (50%C12, 30%C14, 17%C16, 3%C18) dimethyl	8023-53-8	69110	2027	Algaecide,	Quaternary
	L			Microbiocide	Ammonium

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Charrie-1 Cl
Onomioai i tame	<u>CAS Mumber</u>	Code	Code	Ose Type	Chemical Class
dichlorobenzyl ammonium chloride		2500	.5545		Compound
Alkyl (50%C12, 30%C14,	NA 987	69143	1850	Algaecide,	Quaternary
17%C16, 3%C18)				Microbiocide	Ammonium
dimethylbenzyl ammonium chloride					Compound
Alkyl (50%C12, 30%C14,	8045-21-4	69111	1849	Algaecide,	0-4
17%C16, 3%C18)	0043-21-4	09111	1043	Microbiocide	Quaternary Ammonium
dimethylethylbenzyl				Whologiocide	Compound
ammonium chloride					Compound
Alkyl (50%C14, 40%C12,	NA 988	69143	1846	Algaecide,	Quaternary
10%C16) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (50%C14, 40%C12,	68989-01-5	69171	324	Algaecide,	Quaternary
10%C16) dimethylbenzyl ammonium saccharinate	•			Microbiocide	Ammonium
Alkyl (53%C12, 19%C14,	61789-71-7	69140	3535	Almonida	Compound
8.5%C16, 7%C8, 6.5%C10,	01/89-/1-/	09140	3333	Algaecide, Microbiocide	Quaternary Ammonium
6%C18) dimethyl				Microbiocide	Compound
benzylammonium chloride					Сотроина
Alkyl (58%C14, 28%C16,	NA 989	69143	1912	Algaecide,	Quaternary
14%C12) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride					Compound
Alkyl (58%C18, 40%C16,	68391-03-7	69163	2228	Microbiocide	Quaternary
1%C14, 1%C12) trimethyl ammonium chloride	•				Ammonium
Alkyl (60%C14, 25%C12,	68424-85-1	60105	1056		Compound
15%C16) dimethylbenzyl	00424-03-1	69105	1956	Algaecide, Microbiocide	Quaternary
ammonium chloride				Micropiocide	Ammonium Compound
Alkyl (60%C14, 30%C16,	NA 976	69143	1847	Algaecide,	Quaternary
5%C12, 5%C18)			2011	Microbiocide	Ammonium
dimethylbenzyl ammonium					Compound
chloride					
Alkyl (61%C12, 23%C14,	68989-00-4	#####	1960	Algaecide,	Quaternary
11%C16, 3%C10, 2%C8) dimethylbenzyl ammonium				Microbiocide	Ammonium
chloride					Compound
Alkyl (61%C12, 23%C14,	NA 977	69143	1975	Algaecide,	Quaternary
11%C16, 5%C18) dimethyl		051.5	15/5	Microbiocide	Ammonium
benzyl ammonium chloride					Compound
Alkyl (61%C12, 23%C14,	NA 978	69143	2060	Algaecide,	Quaternary
11%C16, 5%C8,C10,C18)		1		Microbiocide	Ammonium
dimethylbenzyl ammonium					Compound
chloride Alkyl	61789-71-7	69140	2275	A1===:1	
(61%C12,23%C14,11%C16,2.	01/07-/1-/	09140	2375	Algaecide, Microbiocide	Quaternary Ammonium
5%C8 & C10,2.5%C18)				MICIONOCIUE	Compound
dimethyl benzyl ammonium					Compound
chloride					
Alkyl (65%C12, 25%C14,	NA 979	69143	1971	Algaecide,	Quaternary
10%C16) dimethylbenzyl				Microbiocide	Ammonium
ammonium chloride	274 000	601.10	40.55		Compound
Alkyl (67%C12, 25%C14, 7%C16, 1%C8,C10,C18)	NA 980	69143	1853	Algaecide,	Quaternary
dimethylbenzyl ammonium				Microbiocide	Ammonium
chloride		<b>i</b>			Compound
Alkyl (68% C12, 32% C14)	NA 1190	#####	NA 167	Algaecide,	Quaternary
					Z

Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
dimethyl dimethylbenzyl ammonium chloride		Code	Code	Microbiocide	Ammonium
Alkyl (68%C12, 32%C14) dimethylethylbenzyl	85409-23-0	69154	1854	Algaecide, Fungicide,	Compound Quaternary Ammonium
ammonium chloride Alkyl (70%C18, 27%C16,	68391-03-7	69163	10	Microbiocide  Microbiocide	Compound Quaternary
3%C14) trimethyl ammonium chloride					Ammonium Compound
Alkyl (90%C14, 5%C12, 5%C16) dimethyl dichlorobenzyl ammonium chloride	8023-53-8	69110	1909	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (90%C14, 5%C12, 5%C16) dimethyl ethyl ammonium bromide	68527-84-4	69146	2057	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (90%C14, 5%C12, 5%C16) dimethylbenzyl ammonium chloride	NA 981	69143	1977	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (93%C14, 4%C12, 3%C16) dimethylbenzyl ammonium chloride	NA 1031	69143	1991	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (95%C14, 3%C12, 2%C16) dimethyl benzyl ammonium chloride	68424-85-1	69105	3855	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (95%C14, 3%C12, 2%C16) dimethyl benzyl ammonium chloride dihydrate	NA 982	69184	2152	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (95%C14, 3%C12, 2%C16) dimethyl benzyl ammonium chloride monohydrate	NA 1322	NA 583	3897	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (98%C12, 2%C14) dimethyl 1-naphthylmethyl ammonium chloride	53516-75-9	69112	1839	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (C10-16) dimethyl amine oxide	61788-90-7	NA 401	3896	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (C14, C12, C16) dimethyl benzyl ammonium chloride	NA 985	NA 587	2374	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl (C8-C18) bis (2- hydroxyethyl) benzyl ammonium chloride	61789-68-2	######	2031	Microbiocide	Quaternary Ammonium Compound
Alkyl (C8-C18) bis (2- hydroxyethyl) benzyl ammonium chloride	NA 1196	69148	NA 168	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl dimethyl cumenyl ammonium chloride	NA 983	NA 584	1919	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl dimethyl ethyl benzyl ammonium cyclohexyl sulfonate	NA 974	NA 580	1002	Microbiocide	Quaternary Ammonium Compound
Alkyl dimethyl ethylbenzyl ammonium cyclohexyl sulfamate	71808-54-3	69135	1722	Algaecide, Microbiocide	Quaternary Ammonium Compound
Alkyl dimethyl isopropyl benzyl ammonium chloride	NA 975	69188	884	Microbiocide	Quaternary Ammonium

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	TT TP	1 01 1 101
OMOTIMOUT TABINO	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
		Code	Code	<del></del>	
Alkyl monoethyoxyethanol,	NA 305	NA 577	1045	3.6: 1: ::	Compound
diethoxyethyl benzyl	NA 303	NA 3//	1045	Microbiocide	Quaternary
ammonium chloride	]				Ammonium
Alkyl morpholinium	NA 1523	NTA 222	274 000		Compound
ethosulphate (1% C14, 22%	NA 1523	NA 223	NA 223	Fungicide	Quaternary
C16, 77% C18)					Ammonium
Alkyl trimethyl ammonium	60404.00.0				Compound
bromides	68424-92-0	######	1827	Microbiocide	Quaternary
bromides			j		Ammonium
411 1/600/610					Compound
Alkyl(68%C12,	NA 1068	NA 159	5126	Algaecide	Quaternary
32%C14)dimethyl					Ammonium
dimethylbenzyl ammonium					Compound
chloride					
Alkyl* bis(2-	91721-81-2	#####	NA 113	N/A	Quaternary
hydroxyethyl)benzyl		i .			Ammonium
ammonium chloride					Compound
*(57%C10, 20%C12, 11%C14,					-
9%C18, 2%C16, 1%C8)					
Alkyl* dimethyl 3,4-	NA 1197	#####	NA 168	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(42% C12, 27% C14,					Compound
13% C16, 18% C8-C18)					Joseph Carlo
Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 112	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(50%C14, 40%C12,					Compound
10%C16)					Compound
Alkyl* dimethyl 3,4-	92129-28-7	69182	NA 648	Algaecide,	Quaternary
dichlorobenzyl ammonium			1.220.0	Microbiocide	Ammonium
chloride *(55%C14, 23%C12,				Minoropiociae	Compound
20%C16, 2%C18)					Compound
Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 124	Algaecide,	Quaternary
dichlorobenzyl ammonium			111121	Microbiocide	Ammonium
chloride *(60% C14, 30% C16,				MICIODIOCIGO	Compound
10% C12)					Сощроша
Alkyl* dimethyl 3,4-	68989-02-6	69180	NA 646	Algaecide,	Ouetem
dichlorobenzyl ammonium	00/0/ 02 0	05100	14A 040	Microbiocide	Quaternary Ammonium
chloride *(60%C12, 25%C14,				Micropiocide	1
15%C16)					Compound
Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 113	A1	
dichlorobenzyl ammonium	00707-02-0	<del>,,,,,,,,,</del>	IVA 113	Algaecide,	Quaternary
chloride *(63% C12, 23% C14,			1	Microbiocide	Ammonium
14% C16)					Compound
Alkyl* dimethyl 3,4-	92129-28-7	69196	NA 653	A11	
dichlorobenzyl ammonium	74147-40-1	05150	IVA 003	Algaecide,	Quaternary
chloride *(65%C12, 22%C14,				Microbiocide	Ammonium
10%C16, 3%C18)					Compound
Alkyl* dimethyl 3,4-	69090 00 6	11,11,11,11	774 444		
dichlorobenzyl ammonium	68989-02-6	#####	NA 114	Algaecide,	Quaternary
chloride *(68% C12, 27% C14,	ļ			Microbiocide	Ammonium
50/C15)					Compound
5%C16)	60550 (= 5				·
Alkyl* dimethyl 3,4-	68568-47-8	#####	NA 124	Algaecide,	Quaternary
dichlorobenzyl ammonium		]		Microbiocide	Ammonium
chloride *(75% C12, 25% C14)					Compound
Alkyl* dimethyl 3,4-	68989-02-6	######	NA 124	Algaecide,	Quaternary
dichlorobenzyl ammonium			İ	Microbiocide	Ammonium
chloride *(75% C12, 25% C14)					Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	<u>Code</u>	Ose I ype	Chemical Class
Alkyl* dimethyl 3,4-	68989-02-6	69145	NA 635	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(90%C14, 5%C16,	1				Compound
5%C12)					•
Alkyl* dimethyl 3,4-	68989-02-6	#####	NA 115	Algaecide,	Quaternary
dichlorobenzyl ammonium				Microbiocide	Ammonium
chloride *(C12 65%, C14 25%,					Compound
C16 10%)					
Alkyl* dimethyl 3,4-	NA 1198	46907	NA 168	Microbiocide,	Iodine Compound,
dichlorobenzyl ammonium				Microbiocide	Quaternary
chloride					Ammonium
polyethoxypolypropoxypolyeth					Compound
oxyethanol - iodine complex					
*(50%C12, 30%C14, 1					
Alkyl* dimethyl benzyl	71011-24-0	<del>#####</del>	NA 113	Algaecide,	Quaternary
ammonium bentonite *(as in				Microbiocide	Ammonium
fatty acids of tallow)	400 400	40.00			Compound
Alkyl* dimethyl benzyl	122-18-9	69108	NA 623	Algaecide,	Quaternary
ammonium chloride *(100% C16)	•			Microbiocide	Ammonium
Alkyl* dimethyl benzyl	120 10 0	11111111	374 444		Compound
ammonium chloride *(100%	122-19-0	#####	NA 114	Algaecide,	Quaternary
C18)				Microbiocide	Ammonium
Alkyl* dimethyl benzyl	68391-01-5	60105	271 650		Compound
ammonium chloride	08391-01-3	69195	NA 652	Algaecide,	Quaternary
*(41%C14, 28%C12, 19%C18,				Microbiocide	Ammonium
12%C16)					Compound
Alkyl* dimethyl benzyl	NA 1199	69168	NA 168	A111-	
ammonium chloride	NA 1199	09100	NA 108	Algaecide, Microbiocide	Quaternary
*(47%C12, 18%C14, 15%(C5-				Microbiocide	Ammonium
C15), 10%C18, 10%C16)					Compound
Alkyl* dimethyl benzyl	8001-54-5	69106	NA 622	Microbiocide,	Overterment
ammonium chloride	0001-54-5	05100	11A 022	Algaecide,	Quaternary Ammonium
*(50%C12, 30%C14, 17%C16,		·		Herbicide	Compound
3%C18)				HOLDICIGO	Compound
Alkyl* dimethyl benzyl	68391-01-5	#####	NA 113	Algaecide,	Quaternary
ammonium chloride *(55%				Microbiocide	Ammonium
C16, 27% C12, 16% C14, 2%		:			Compound
C18)					Julpound
Alkyl* dimethyl benzyl	68391-01-5	69169	NA 641	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(55%C16, 20%C14, 20%C12,					Compound
5%C18)					
Alkyl* dimethyl benzyl	NA 1200	69141	NA 168	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(58%C14, 28%C16, 14%C12)					Compound
Alkyl* dimethyl benzyl	68424-85-1	69161	NA 168	Algaecide,	Quaternary
ammonium chloride *(60%				Microbiocide	Ammonium
C14, 30% C16, 10% C12)				. ,,	Compound
Alkyl* dimethyl benzyl	NA 1201	69137	NA 168	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 25%C12, 15%C16)					Compound
Alkyl* dimethyl benzyl	53516-76-0	69104	NA 621	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 30%C16, 5%C18,					Compound
5%C12)	60001 01 7				
Alkyl* dimethyl benzyl	68391-01-5	69189	NA 650	Algaecide,	Quaternary

Chemical Name	CACN	III EDA DO	0.4.67		
<u>Chemical Name</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
ammonium chlorido *(610/		<u>Code</u>	<u>Code</u>		
ammonium chloride *(61%		f.		Microbiocide	Ammonium
C12, 23% C14, 11% C16, 5%					Compound
C18)					
Alkyl* dimethyl benzyl	NA 1202	#####	NA 168	Algaecide,	Quaternary
ammonium chloride *(61%				Microbiocide	Ammonium
C12, 23% C14, 11% C16, 5%					Compound
C18)	1				Compound
Alkyl* dimethyl benzyl	NA 1203	69199	NA 169	Algaecide,	Quaternary
ammonium chloride			1111105	Microbiocide	Ammonium
*(65%C12, 23%C14, 12%C16)				Micropiocide	
Alkyl* dimethyl benzyl	68424-85-1	69157	NA 164	Algaecide,	Compound
ammonium chloride	00424-05-1	05157	112 104	Microbiocide	Quaternary
*(65%C12, 25%C14, 10%C16)				Micropiocide	Ammonium
Alkyl* dimethyl benzyl	68391-01-5	69175	274 644		Compound
ammonium chloride	00391-01-3	091/5	NA 644	Algaecide,	Quaternary
*(67%C12, 25%C14, 7%C16,				Microbiocide	Ammonium
					Compound
1%C18)					
Alkyl* dimethyl benzyl	NA 1204	<del>######</del>	NA 169	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(67%C12, 25%C14, 7%C16,					Compound
1%C8, C10, and C18)					•
Alkyl* dimethyl benzyl	NA 1205	69142	NA 169	Microbiocide	Quaternary
ammonium chlòride					Ammonium
*(67%C12, 27%C14, 6%C16)					Compound
Alkyl* dimethyl benzyl	NA 1206	#####	NA 169	Algaecide,	Quaternary
ammonium chloride *(68%				Microbiocide	Ammonium
C12, 25% C14, 7% C16)					Compound
Alkyl* dimethyl benzyl	NA 1207	69194	NA 169	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(90%C14, 5%C12; 5%C16)				Microbiocide	
Alkyl* dimethyl benzyl	68424-85-1	69158	NA 164	Algaecide,	Compound
ammonium chloride	00121051	05130	112 104	Microbiocide	Quaternary
*(93%C14, 4%C12, 3%C16)				Micropiocide	Ammonium
Alkyl* dimethyl benzyl	68607-20-5	#####	NA 114	A111	Compound
ammonium chloride *(95%	00007-20-3	<del>11111111111</del>	NA 114	Algaecide,	Quaternary
C16, 5% C18)	,			Microbiocide	Ammonium
Alkyl* dimethyl benzyl	774 1000				Compound
	NA 1208	#####	NA 169	Algaecide,	Quaternary
ammonium chloride *(as in			1	Microbiocide	Ammonium
fatty acids of coconut oil)					Compound
Alkyl* dimethyl benzyl	NA 1209	######	NA 169	Algaecide,	Quaternary
ammonium chloride *(C8-18)		1		Microbiocide	Ammonium
					Compound
Alkyl* dimethyl benzyl	61790-41-8	#####	NA 114	Algaecide,	Quaternary
ammonium ion alkyl** amine			ļ	Microbiocide	Ammonium
*(C12, C14, C16) **(C10,			;		Compound
C12, C14, C16)			}		<u>r</u> • • • • • • • • • • • • • • • • • • •
Alkyl* dimethyl	8045-22-5	69109	NA 624	Algaecide,	Quaternary
dimethylbenzyl ammonium				Microbiocide	Ammonium
chloride *(50%C12, 30%C14,					Compound
17%C16, 3%C18)					Compound
Alkyl* dimethyl ethyl	134595-54-3	69186	NA 649	Algaecide,	Overtee
ammonium bromide *(85%	20 1000-04-0	02100	11/L 047		Quaternary
C16, 15% C18)				Microbiocide	Ammonium
Alkyl* dimethyl ethyl	61788-99-6	нинии	NTA 112		Compound
ammonium bromide *(mixed	01/00-33-0	#####	NA 113	Algaecide,	Quaternary
alkyl and alkenyl groups as in				Microbiocide	Ammonium
	1				Compound
fatty acids of soybean oil)		L			

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code		OADB
Alkyl* dimethyl ethylbenzyl	68956-79-6	69167	NA 640	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
*(60%C14, 30%C16, 5%C12,					Compound
5%C18)					
Alkyl* dimethyl ethylbenzyl	37335-68-5	69135	NA 633	Algaecide,	Quaternary
ammonium				Microbiocide	Ammonium
cyclohexylsulfamate					Compound
*(50%C12, 30%C14, 17%C16,					
3%C18) Alkyl* trimethyl ammonium	1110 00 0				<del></del>
bromide *(95%C14, 5%C16)	1119-97-7	69153	NA 637	Microbiocide	Quaternary
biomide (93%C14, 5%C16)					Ammonium
Alkyl* trimethyl ammonium	110.00.5	200000	271 442		Compound
chloride *(70% C12, 30% C14)	112-00-5	#####	NA 113	Microbiocide	Quaternary
(70% C12, 30% C14)					Ammonium
Alkyl* trimethyl ammonium	68002-63-1	69197	NTA 654	3.61	Compound
chloride *(70%C18, 27%C16,	00002-03-1	09197	NA 654	Microbiocide	Quaternary
3%C14)			\		Ammonium
Alkyl* trimethyl ammonium	68002-62-0	69151	NA 636	Microbiocide	Compound
chloride *(90%C18, 10%C16)	00002-02-0	09151	14M 030	Miciopiocide	Quaternary
(27,0216, 20,0016)	,		•		Ammonium
Alkyl* trimethyl ammonium	61790-41-8	#####	NA 115	Microbiocide	Compound
chloride *(alkyl as in fatty			142 113	Micropiocide	Quaternary Ammonium
acids of soybean oil)					Compound
Alkyl* trimethyl ammonium	61789-18-2	#####	NA 109	Microbiocide	Quaternary
chloride *(as in fatty acids of			111105	Microbiocide	Ammonium
coconut oil)					Compound
Alkyl* trimethyl ammonium	68002-61-9	69139	NA 634	Microbiocide	Quaternary
chloride *derived from					Ammonium
cottonseed oil					Compound
Alkyl*-5-hydroxy-4-oxo-	NA 1189	#####	NA 167	Microbiocide	Quaternary
2(4H)-pyranylmethyl dimethyl					Ammonium
ammonium chloride *(49%					Compound
C12, 17% C14, 17% C10, 10%	`				
C18, 9% C16, 8% C8)	70750 47 0				
Alkyl*-N,N-bis(2- hydroxyethyl)methyl	70750-47-9	#####	NA 114	N/A	Quaternary
ammonium chloride *(53%				Ì	Ammonium
C12, 19% C14, 8.5% C16,					Compound
7.0% C8, 6.5% C10, 6.0%					
C18)					
Alkyl*-N-ethyl morpholinium	NA 1213	69147	NA 170	Fungicide,	
ethyl sulfate *(66%C18,	101 1215	05147	NA 170	Algaecide	Quaternary
25%C16, 8%C18', 1%C14)				Aigaecide	Ammonium Compound
Alkyldimethylbenzyl	NA 1368	NA 194	NA 193	Microbiocide,	Quaternary
ammonium chloride				Herbicide	Ammonium
				222220100	Compound
Alkyldimethylethylbenzylamm	NA 1369	NA 194	NA 193	Microbiocide,	Quaternary
onium chloride		1		Herbicide	Ammonium
					Compound
Alkyltrimethyl ammonium	NA 1370	NA 194	NA 193	Microbiocide,	Quaternary
chloride		1		Fungicide	Ammonium
					Compound
Alkyltrimethylbenzyl	NA 1371	NA 194	NA 193	Herbicide	Quaternary
ammonium chloride					Ammonium
Benzyl dimethyl octadecyl		i			Compound
	122-19-0	#####	1186	Microbiocide	Quaternary

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	030 1,750	Chomical Class
ammonium chloride					Ammonium
•		•			Compound
Benzyl((dodecylcarbamoyl)met	100-95-8	69159	NA 638	Microbiocide	Quaternary
hyl)dimethyl ammonium					Ammonium
chloride					Compound
Benzyl-C12-14-alkyldimethyl	134058-54-1	69192	5069	Microbiocide	Quaternary
quaternary ammonium					Ammonium
compounds					Compound
Cetyl dimethyl ethyl	124-03-8	69156	122	Microbiocide	Quaternary
ammonium bromide					Ammonium
				•	Compound
Cetyl trimethyl ammonium	57-09-0	69117	116	Microbiocide,	Quaternary
bromide				Herbicide	Ammonium
					Compound
Cetyl trimethyl ammonium	112-02-7	69133	NA 632	Microbiocide	Quaternary
chloride					Ammonium
					Compound
Cetylcide (95%C16, 3%C14,	124-03-8	69156	2061	Microbiocide	Quaternary
2%C12)					Ammonium
					Compound
Chlormequat	7003-89-6	NA 216	NA 215	Plant Growth	Quaternary
				Regulator	Ammonium
					Compound
Chlormequat chloride	999-81-5	18101	1512	Plant Growth	Quaternary
<u> </u>				Regulator	Ammonium
T)'(-11-14	371 4564	50151			Compound
Di(alkyl* oxypropyl)dimethyl	NA 1261	69121	NA 173	Algaecide,	Quaternary
ammonium chloride *(60%C8, 40%C10)				Microbiocide	Ammonium
Dialkyl (85%C18, 15%C16)	69514.05.4	214 255	107	3.5. 1	Compound
dimethyl ammonium chloride	68514-95-4	NA 355	197	Microbiocide,	Quaternary
difficulty animomital choride		ĺ		Adjuvant	Ammonium
Dialkyl dimethyl ammonium	NA 900	NA 172	5181	N 6: 1 .:: 1 .	Compound
polynaphthyl amine	14A 900	NA 172	2191	Microbiocide	Quaternary
porymaphanyi anime					Ammonium
Dialkyl* dimethyl ammonium	73398-64-8	69136	2230	Microbiocide	Compound
chloride *(47%C12, 18%C14,	73370-04-0	09130	2230	Micropiocide	Quaternary Ammonium
10%C18, 9%C10, 8%C16,			}		
8%C8)					Compound
Dialkyl* dimethyl ammonium	73398-64-8	#####	NA 114	Microbiocide	Quaternary
chloride *(48% C12, 17% C14,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		11111	Wholostocide	Ammonium
10% C18, 9% C16, 8% C8, 7%			ŀ		Compound
C10, 1% C6)					Compound
Dialkyl* dimethyl ammonium	68153-33-3	#####	NA 113	Microbiocide	Quaternary
chloride *(50%C12, 20%C14,					Ammonium
15%C10, 10%C16, 5%C18)					Compound
Dialkyl* dimethyl ammonium	68910-56-5	69177	NA 645	Microbiocide	Quaternary
chloride *(50%C12, 30%C14,					Ammonium
20%C16)					Compound
Dialkyl* dimethyl ammonium	68002-59-5	69120	NA 626	Microbiocide	Quaternary
chloride *(70%C18, 26%C16,					Ammonium
4%C14)					Compound
Dialkyl* methyl benzyl	73049-75-9	69119	NA 625	Algaecide,	Quaternary
ammonium chloride *(60%				Microbiocide	Ammonium
C14, 30% C16, 5% C18, 5%					Compound
C12)					
Diallyl dimethyl ammonium	26062-79-3	#####	5092	Adjuvant	Quaternary

code Code Code Code Ammonium Chloride polymers  Dibenzyldimethylammonium chloride ch	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
chloride polymers  Dibenzyldimethylammonium chloride  Dicoco dimonium chloride  Dicoco dimonium chloride  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium didecyl dimethyl ammonium bicarbonate  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dibecyl dimethyl ammonium chloride  Dimethyl dioctoaceyd chloride  Dimethyl dioctoaceyd chloride  Dimethyl dioctoaceyd chloride  Dimethyl dioctoaceyd chloride  Dibectyl dimethyl ammonium chloride  Distearyl dimenthyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dimethyl dioctoaceyd chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dibectyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chlor		<u> </u>			Osc Type	Chemical Class
Diberzyldimethylammonium chloride  Dicoco dimonium chloride  Dicoco dimonium chloride  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium bicarbonate  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl methyl benzyl ammonium compound  Dihydrogenated tallow dimethyl ammonium methosuffate  Dilauyl dimethyl ammonium bicarbonate  Dilauyl dimethyl ammonium compound  Dilauyl dimethyl ammonium compound  Dilauyl dimethyl ammonium chloride  Dimethyl dicoco ammonium chloride  Dimethyl dicoco ammonium chloride  Dimethyl dicoco ammonium chloride  Dimethyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Diocyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound comp	chloride polymers					Ammonium
Dilecycl dimethyl ammonium carbonate Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Dilecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl				į		
Didecyl dimethyl ammonium chloride daronnium chlori		NA 1440	NA 213	NA 213	Microbiocide	
Diceco dimonium chloride  Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium bicarbonate bidecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium ammonium chloride  Dilauyl dimethyl ammonium ammonium chloride  Dilauyl dimethyl ammonium chloride  Dil	chloride			İ		
Didecyl dimethyl ammonium chloride carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium chloride dimethyl ammonium chloride ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl ammonium chloride dimethyl dioctadecyl ammonium chloride dimethyl dioctadecyl ammonium chloride dimethyl dioctadecyl ammonium chloride dimethyl dioctadecyl ammonium chloride dimethyl dioctadecyl ammonium chloride dimethyl ammonium chlori						
Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium bicarbonate bicarbonate and didecyl dimethyl ammonium bicarbonate bicarbonate and didecyl dimethyl ammonium bicarbonate bicarbonate and didecyl dimethyl ammonium bicarbonate	Dicoco dimonium chloride	61789-77-3	69138	3140	Adjuvant	
Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium bicarbonate didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl benzyl ammonium chloride didecyl dimethyl benzyl ammonium chloride didecyl dimethyl benzyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium didecyl dimethyl ammonium didecyl dimethyl dideco ammonium chloride didecyl dimethyl dicoca decyl dimethyl dicoca decyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl ammonium chloride didecyl dimethyl didecolate didecyl dimethyl ammonium chloride didecyl dimethyl didecolate didecyl dimethyl didecolate didecyl dimethyl didecolate didecyl didecolate dideco						
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carbonate and didecyl dimethyl ammonium bicarbonate Didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate Didecyl dimethyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate Dilayrl dimethyl ammonium chloride  Dilayrl dimethyl ammonium chloride  Dilayrl dimethyl ammonium chloride  Dilayrl dimethyl ammonium chloride  Dilayrl dimethyl dicoca ammonium chloride  Dimethyl dicoca ammonium chloride  Dimethyl dicoca decyl ammonium chloride  Disteryl dimethyl ammonium chloride  Disteryl dimethyl ammonium chloride  Disteryl dimethyl ammonium chloride  Disteryl dimethyl ammonium chloride  Disteryl dimethyl ammonium chloride  Disteryl dimenium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dim		148788-55-0	69208	NA 658	Microbiocide	
Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Didecyl dimethyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium chloride  Dilauryl dimethyl ammonium chloride  Dimethyl dicoco ammonium chloride  Dimethyl dicoco ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ben					į	
Didecyl dimethyl ammonium carbonate and didecyl dimethyl ammonium bicarbonate and didecyl dimethyl ammonium chloride  Didecyl dimethyl benzyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium bromide  Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl armonium bromide  Dimethyl dioctadecyl armonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl 2,4,5-trimethylbenzyl armonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dioctyl dimethyl benzyl ammonium chloride  Dioctyl dimethyl benzyl ammonium chloride  D						Compound
Carbonate and didecyl dimethyl ammonium bicarbonate Didecyl dimethyl ammonium Compound Compound Chloride Didecyl dimethyl ammonium Chloride Didecyl methyl benzyl ammonium chloride Dihydrogenated tallow dimethyl ammonium methosulfate Dilauryl dimethyl ammonium Sazez-73-3 ##### NA 112 Microbiocide Quaternary Ammonium Compound Dimethyl dicocco ammonium NA 166 NA 317 1945 Microbiocide Quaternary Ammonium Compound Dimethyl diocca ammonium Compound Dimethyl dioctadecyl ammonium bentonite Dioctyl dimethyl ammonium Compound Compound Distearyl dimentium chloride Dioctyl dimethyl ammonium chloride Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium Compound Dodecyl dimethyl benzyl ammonium NA 157 NA 294 1008 Microbiocide Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Quaternary Ammonium Compound Dioctyl dimethyl ammonium chloride NA 157 NA 294 NA 647 Microbiocide Quaternary Ammonium Compound Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Compound Compound Dodecyl dimethyl benzyl ammonium Compound Dodecyl dimethyl benzyl ammonium Compound Compound Compound Compound Dodecyl dimethyl benzyl ammonium Compound Compo		148812-65-1	69208	NA 659	Microbiocide	
Didecyl dimethyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Dilydrogenated tallow dimethyl ammonium methosulfate Dilauryl dimethyl ammonium bromide  Dimethyl diocco ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dodecyl diid(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride						
Didecyl dimethyl ammonium chloride  Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium chloride  Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Diodecyl diid(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylexyl ammonium chloride  Dodecyl dimethyl benzyl ammonium ch						
chloride  Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium bromide  Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl ammonium bromide  Dioctyl dimethyl ammonium chloride  Dioctyl dimethyl ammonium bromide  Dioctyl dimethyl ammonium chloride  Diodecyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		7173-51-5	69149	1682	Microbiocide,	
Didecyl methyl benzyl ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium bromide  Dimethyl diococ ammonium chloride  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimethyl ammonium benzyl ammonium chloride  Diodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride	chloride		1		Fungicide	Ammonium
ammonium chloride  Dihydrogenated tallow dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium bromide  Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dioctyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound compou				<u> </u>		Compound
Dihydrogenated tallow dimethyl ammonium methosulfate  Dilaryl dimethyl ammonium bromide  Dimethyl dicocco ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Diodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		32426-10-1	69170	NA 642	Microbiocide	Quaternary
Dilaydrogenated tallow dimethyl ammonium methosulfate Dilauryl dimethyl ammonium bromide Dilauryl dimethyl ammonium bromide Dimethyl diococ ammonium chloride Dimethyl dioctadecyl ammonium chloride Dimethyl dioctadecyl ammonium chloride Dioctyl dimethyl ammonium chloride Dioctyl dimethyl ammonium chloride Diodecyl di(2-hydroxyethyl) benzyl ammonium chloride Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium compound Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride Dodecyl dimethyl benzyl ammonium chloride	ammonium chloride		ļ			Ammonium
dimethyl ammonium methosulfate  Dilauryl dimethyl ammonium bromide  Dimethyl dicco ammonium chloride  Dimethyl dicco ammonium chloride  Dimethyl dicco ammonium chloride  Dimethyl diccadecyl ammonium chloride  Distearyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium commonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride						Compound
Dilauryl dimethyl ammonium bromide   Dilauryl dimethyl ammonium bromide   Dilauryl dimethyl ammonium bromide   Dimethyl dicoco ammonium chloride   NA 166 NA 317   1945   Microbiocide   Quaternary Ammonium Compound   Ointerlyl dicoco ammonium chloride   NA 627 NA 114   3163 Adjuvant   Quaternary Ammonium Compound   Ointerlyl dicotadecyl ammonium bentonite   Dimethyl dicotadecyl ammonium chloride   Difference   Differ	Dihydrogenated tallow	61789-81-9	69150	3153	Adjuvant	
Dilauryl dimethyl ammonium bromide    Salay						Ammonium
Dimethyl diccoco ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dimethyl dioctadecyl ammonium chloride  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride						Compound
Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl ammonium bentonite  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		3282-73-3	#####	NA 112	Microbiocide	Quaternary
Dimethyl dicoco ammonium chloride  Dimethyl dioctadecyl ammonium bentonite  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride	bromide					Ammonium
chloride  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride	D: .1.11					Compound
Dimethyl dioctadecyl ammonium bentonite  Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		NA 166	NA 317	1945	Microbiocide	
Dimethyl dioctadecyl ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride	chioride					-
ammonium bentonite  Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl chloride  Dodecyl dimethyl benzyl chloride  Dodecyl dimethyl	Di	374 607	271			
Dioctyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		NA 627	NA 114	3163	Adjuvant	
Distearyl dimethyl ammonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium chloride	ammomum bentonite					
chloride  Distearyl dimonium chloride  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride	Dioatyl dimethyl same	5520.04.2	60166	1510	24.	
Dodecyl dig(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride		3338-94-3	09100	1710		
Distearyl dimonium chloride  107-64-2  #####  3176  Adjuvant  Quaternary  Ammonium  Compound  Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium  chloride  Dodecyl dimethyl ammonium  chloride  Dodecyl dimethyl ammonium  chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride	Cinoride					1
Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride	Distantil dimonium ablarida	107 64 2	21111111	2176		
Dodecyl di(2-hydroxyethyl) benzyl ammonium chloride  Dodecyl dimethyl 2,4,5-trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride	Disteary dimondian emoride	107-04-2	#######	31/6	Adjuvant	
Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate						
benzyl ammonium chloride  Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopenateacarboxylate  Dodecyl dimethyl benzyl ammonium cyclopenateacarboxylate  Dodecyl dimethyl benzyl ammonium cyclopenateacarboxylate  Dodecyl dimethyl benzyl ammonium cyclopenateacarboxylate  Dodecyl dimethyl benzyl ammonium cyclopenateacarboxylate	Dodecyl di(2-hydroxyethyl)	10370 00 0	60191	NIA 647	MG1111-	
Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentalexibylate  Dodecyl dimethyl benzyl ammonium cyclopentalexibylate  Dodecyl dimethyl benzyl ammonium cyclopentalexibylate		13373-30-3	09161	NA 047	Micropiocide	
Dodecyl dimethyl 2,4,5- trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  NA 157  NA 294  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate	o o o o o o o o o o o o o o o o o o o				<u>'</u>	
trimethylbenzyl ammonium chloride  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate	Dodecyl dimethyl 2 4 5-	53404-46-9	#####	NA 113	Microbiocido	
Compound  Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate		33707-70-2	######	IVATIS	Micropiocide	
Dodecyl dimethyl ammonium chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  NA 294  1008  Microbiocide  Pungicide, Microbiocide  Ammonium Compound  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  NA 629  Microbiocide  Quaternary Ammonium Compound  Compound  Compound  Compound						
chloride  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentaboxylate  Dodecyl dimethyl benzyl ammonium cyclopentaboxylate  Dodecyl dimethyl benzyl ammonium cyclopentaboxylate  Dodecyl dimethyl benzyl ammonium cyclopentaboxylate  Dodecyl dimethyl benzyl ammonium cyclopentaboxylate		NA 157	NA 294	1008	Microbiocide	
Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl cyclopentanecarboxylate  Dodecyl dimethyl benzyl cyclopentanecarboxylate  Dodecyl dimethyl benzyl cyclopentanecarboxylate  Dodecyl dimethyl benzyl cyclopentanecarboxylate  Dodecyl dimethyl benzyl cyclopentanecarboxylate		- 12 - 20 /	1111277	1000	14110100100106	
Dodecyl dimethyl benzyl ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate  Dodecyl dimethyl benzyl ammonium cyclopentanecarboxylate	,		•			
ammonium bromide  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclo	Dodecyl dimethyl benzyl	1964001	69123	NA 627	Fungicide	
Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium compound  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl ammonium cyclopentamonium cyclopentamonylate  Dodecyl dimethyl benzyl 22232-26-4 69128 NA 629 Microbiocide Quaternary Ammonium Compound						
Dodecyl dimethyl benzyl ammonium chloride  Dodecyl dimethyl benzyl ammonium  Dodecyl dimethyl benzyl ammonium  cyclopentanecarboxylate  139-07-1 69124 1167 Microbiocide, Herbicide Ammonium  Compound  Ouaternary  Ammonium  Compound  Compound  Compound						
ammonium chloride  Dodecyl dimethyl benzyl 22232-26-4 69128 NA 629 Microbiocide Quaternary Ammonium cyclopentanecarboxylate  Compound  Compound	Dodecyl dimethyl benzyl	139-07-1	69124	1167	Microbiocide	
Dodecyl dimethyl benzyl 22232-26-4 69128 NA 629 Microbiocide Quaternary Ammonium cyclopentanecarboxylate Compound		-				
Dodecyl dimethyl benzyl 22232-26-4 69128 NA 629 Microbiocide Quaternary Ammonium cyclopentanecarboxylate Compound						
ammonium cyclopentanecarboxylate  Compound	Dodecyl dimethyl benzyl	22232-26-4	69128	NA 629	Microbiocide	
cyclopentanecarboxylate Compound						
					ŀ	
	Dodecyl dimethyl benzyl	NA 1027	69127	1446	Fungicide,	Quaternary

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I I a Trans	<u> </u>
·	CAS Number	Code	<u>CA Chem</u>	Use Type	Chemical Class
ammonium naphthenate				Insecticide, Fungicide	Ammonium Compound
Dodecyl dimethyl	53466-90-3	#####	NA 113	Microbiocide	Quaternary
trichlorobenzyl ammonium			11111111	1,1101001001440	Ammonium
chloride					
Dodecylbenzyl alkyl (70%C12,	87175-02-8	#####	1038	Algaecide,	Compound
30%C14) dimethyl ammonium	07175-02-0	<i>mamm</i>	1038	Microbiocide	Quaternary
chloride				Micropiocide	Ammonium
Dodecylbenzyl octadecyl	29932-85-2	#####	NA 113	NC:1:1	Compound
dimethyl ammonium chloride	29932-03-2	######	NA 113	Microbiocide	Quaternary
dimetry aminoman emorate					Ammonium
Dodecylbenzyl trimethyl	12379-51-0	60106	371 600	ļ	Compound
ammonium 2-ethylhexanoate	123/9-31-0	69126	NA 628	N/A	Quaternary
ammomum 2-emymexanoate					Ammonium
Dodecylbenzyl trimethyl	1220.05.4				Compound
ammonium chloride	1330-85-4	69125	918	Adjuvant,	Quaternary
animomum chloride				Microbiocide	Ammonium
					Compound
Ecolyst .	NA 1174	69089	NA 165	Plant Growth	Quaternary
::				Regulator	Ammonium
					Compound
Ethyl dimethyl stearyl	111-98-8	#####	NA 115	Microbiocide	Quaternary
ammonium bromide					Ammonium
					Compound
Mepiquat	15302-91-7	NA 203	NA 202	Plant Growth	Quaternary
			ĺ	Regulator	Ammonium
					Compound
Mepiquat chloride	24307-26-4	#####	2075	Plant Growth	Quaternary
				Regulator	Ammonium
					Compound
Methyl dodecyl benzyl	1399-80-0	69129	895	Microbiocide	Quaternary
trimethyl ammonium chloride					Ammonium
					Compound
Methyl dodecyl benzyl	NA 619	NA 112	2678	Microbiocide	Quaternary
trimethyl ammonium chloride			20,0	1VIICIODIOCIGO	Ammonium
80% and methyl					Compound
Methyl dodecyl trimethyl	NA 44	NA 83	2679	Microbiocide	Quaternary
ammonium chloride		111200	2075	Whereblocide	Ammonium
Methyl dodecyl xylene bis	NA 45	NA 84	896	Microbiocide	Compound
(trimethyl ammonium chloride)	111115	1111.04	650	Microprocide	Quaternary
(					Ammonium
Methyl trioctyl ammonium	5137-55-3	NA 72	3291	A 4:	Compound
chloride	3137-33-3	NA 12	3291	Adjuvant	Quaternary
o.mo.rao					Ammonium
Morpholine dodecyl benzene	12068-08-5	444444	2204	) diam't	Compound
sulfonate	12000-08-3	######	3294	Microbiocide,	Quaternary
Suitoliate	į			Adjuvant,	Ammonium
				Fungicide,	Compound
N-(3,4-dichlorobenzyl)-N-	100 20 7	nann	1100	Insecticide	
	102-30-7	# <i>!!!!!!!</i>	1129	Microbiocide	Quaternary
dodecyl-N,N-dimethyl ammonium chloride	l			Ī	Ammonium
				<u></u>	Compound
N-alkyl (92%C18, 8%C16)-N-	61791-34-2	69113	986	Fungicide,	Quaternary
ethyl morpholinium ethyl		l		Microbiocide	Ammonium
sulfate					Compound
N-alkyl (soza)-N-methyl	NA 281	NA 550	3020	Fungicide,	Quaternary
morpholinium sulfate				Microbiocide	Ammonium
					Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	Osc Type	Chemical Class
N-cetyl-N-ethyl morpholinium	78-21-7	69113	1792	Fungicide,	Quaternary
ethyl sulfate				Microbiocide	Ammonium
			1		Compound
N-Cetyl-N-ethyl morpholinium	78-21-7	#####	NA 174	Fungicide	Quaternary
ethyl sulfate				2 magnered	Ammonium
•		/			Compound
N-Cetyl-N-ethylmorpholinium	78-21-7	69187	NA 172	Fungicide	Quaternary
ethyl sulfate				Langiora	Ammonium
•					Compound
N-Dialkyl (60%C14, 30%C16,	68424-87-3	NA 356	2070	Microbiocide	Quaternary
5%C12, 5%C18) methyl	· ·			11210100100100	Ammonium
benzyl ammonium chloride					Compound
N-isononyl-N,N-dimethyl	138698-36-9	69207	5070	Microbiocide	Quaternary
decanaminium chloride					Ammonium
<u> </u>	·				Compound
Octyl decyl dimethyl	32426-11-2	69165	1709	Microbiocide,	Quaternary
ammonium chloride				Fungicide	Ammonium
					Compound
Octyl dodecyl dimethyl	10361-16-7	69190	1947	Microbiocide	Quaternary
ammonium chloride					Ammonium
					Compound
Oleyl dimethyl ethyl	14351-44-1	69132	NA 631	Microbiocide	Quaternary
ammonium bromide					Ammonium
	İ				Compound
Oxydiethylene bis (alkyl	68607-28-3	69173	1362	Microbiocide	Quaternary
dimethyl ammonium chloride),					Ammonium
alkyl derived from coconut oil	1				Compound
fatty acids					
Polybromide form of	NA 1164	8711	NA 163	Microbiocide	Quaternary
trimethylbenzyl ammonium					Ammonium
resin					Compound
Polyethoxypolypropoxypolyeth	NA 1287	46913	NA 175	Microbiocide	Iodine Compound,
oxyethanol-n-alkyl (54% C12,					Quaternary
18% C14, 9% C16, 9% C18,					Ammonium
5% C10, 5% C8) di(beta-					Compound
. hydroxyethyl) benzyl am					
Polymeric quaternary	NA 1463	NA 217	NA 216	Microbiocide,	Quaternary
ammonium chloride				Adjuvant	Ammonium
<del></del>					Compound
Polyquaternium-6	28301-34-0	NA 767	2818	Adjuvant	Quaternary
					Ammonium
·					Compound
Polytrimethyl vinyl benzyl	9017-80-5	NA 119	3769	Adjuvant	Quaternary
ammonium chloride					Ammonium
					Compound
Quaternium-18 bentonite	68953-58-2	<del>######</del>	2996	Adjuvant	Quaternary
					Ammonium
					Compound
	61791-34-2	69113	3453	Fungicide,	Quaternary
ethosulfate				Microbiocide	Ammonium
					Compound
	139-08-2	69107	1166	Algaecide,	Quaternary
ammonium chloride				Microbiocide	Ammonium
· · · · · · · · · · · · · · · · · · ·					Compound
Tetraethyl ammonium	77-98-5	4215	NA 76	N/A	Quaternary
	11-20-5	7213	1121 /0	****	Qualitatiat y
hydroxide	7,750-5	4213	14170		Ammonium
			1166	Microbiocide  Algaecide, Microbiocide	Compound Quaternary Ammonium Compound Quaternary Ammonium Compound

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Mac Tree	Observing 1 C1
·	CAS INITIOEI	Code	Code	<u>Use Type</u>	Chemical Class
2-Mercaptobenzothiazole, zinc	155-04-4	51705	1449	Fungicide,	Mercaptobenzothiazo
salt	""	01.02	1	Microbiocide	le, Inorganic-Zinc
5-Chloro-2-	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
mercaptobenzothiazole, zinc				Fungicide	le, Inorganic-Zinc
salt					,
Acetic acid, copper (2+) salt	142-71-2	NA 697	3013	N/A	Inorganic-Copper
Alkyl*-1-(2-aminoethyl)-2-	NA 1188	46606	NA 167	Microbiocide	Inorganic-Nickel,
imidazoline acetate - nickel					Imidazoline
sulfate complex					
Aluminum	7429-90-5	111	1042	N/A	Inorganic
Aluminum acetate	NA 971	NA 548	3025	N/A	Inorganic
Aluminum bicarbonate	NA 1043	NA 140	3026	N/A	Inorganic
Aluminum caprylate	6028-57-5	NA 549	3027	N/A	Inorganic
Aluminum chloride	7446-70-0	13901	3028	N/A	Inorganic
Aluminum diacetate	142-03-0	NA 113	3029	N/A	Inorganic
Aluminum hydroxide	21645-51-2	NA 129	2145	N/A	Inorganic
Aluminum magnesium silicate Aluminum oxide	NA 1018	NA 107	2378	Adjuvant	Inorganic
	1344-28-1	NA 540	3030	N/A	Inorganic
Aluminum phosphide	20859-73-8	66501	484	Fumigant,	Inorganic
				Fungicide,	
Aluminum potassium sulfate	10043-67-1	#####	3031	Fungicide Herbicide,	<u> </u>
Poulsoiani Banate	10045-07-1	<i>1111111111</i>	2021	Insecticide	Inorganic
Aluminum silicate	1302-76-7	NA 131	2379	Adjuvant	Inorganic
Aluminum stearate	637-12-7	NA 541	3032	N/A	Inorganic
Aluminum sulfate	10043-01-3	13906	1415	Plant Growth	Inorganic
				Regulator,	Horganic
	i i			Molluscicide	
Ammonia	7664-41-7	5302	22	Insecticide,	Inorganic
		•		Deer Repellent,	Ŭ
				Fungicide	
Ammonium alum	7784-26-1	NA 533	3037	Repellent	Inorganic
Ammonium alum	NA 1216	98501	NA 170	Adjuvant	Inorganic
Ammonium arsenate	7784-44-3	13601	2380	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Ammonium bicarbonate	1066-33-7	NA 534	3038	Rodenticide	·
Ammonium bisulfate	7803-63-6	NA 141	3038	pH Adjustment N/A	
Ammonium bromide	12124-97-9	352	3040	N/A	Inorganic
Ammonium carbamate	1111-89-7	NA 141	3041	N/A	Inorganic
Ammonium carbonate	506-87-6	73501	3042	Fungicide,	Inorganic Inorganic
		75501	2042	Herbicide,	шогдаше
				Microbiocide,	
				pH Adjustment	
Ammonium chloride	12125-02-9	#####	3043	N/A	Inorganic
Ammonium dichromate	2149701	68305	NA 607	Wood	Inorganic-
				Preservative	Chromium(VI),
Ammaria	10100 0 : =				Heavy metal
Ammonium ferric sulfate	10138-04-2	NA 537	3047	Herbicide	Inorganic
Ammonium fluosilicate	16919-19-0	75301	695	Insecticide	Inorganic
Ammonium fluosilicate on silica gel	62449-69-8	75311	NA 694	Insecticide	Inorganic
Ammonium hydroxide	1336-21-6	5301	2381	Fungicide, pH	Inorganic
				Adjustment,	
				Herbicide,	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Olars
<u> </u>	<u>Crib Itamoci</u>	Code	Code	<u>Ose Type</u>	Chemical Class
				Microbiocide	
Ammonium nitrate	6484-52-2	76101	3052	Rodenticide,	Inorganic
			5552	Microbiocide	Horganic
Ammonium nitrite	13446-48-5	76201	NA 700	Rodenticide,	Inorganic
				Microbiocide	morganic
Ammonium oxalate	1113-38-8	9603	891	Microbiocide	Inorganic
Ammonium polysulfides	9080-17-5	76701	NA 707	Insecticide,	Inorganic
				Fungicide	anox game
Ammonium sulfate	7783-20-2	5601	1363	Herbicide, pH	Inorganic
				Adjustment	
Ammonium thiocyanate	1762-95-4	68200	25	Synergist	Inorganic
Ammonium thiosulfate	7783-18-8	80103	892	Insecticide,	Inorganic
				Fungicide,	J
				Herbicide	
Anhydrous zirconium (IV)	1314-23-4	79090	2204	N/A	Inorganic
oxide					
Anilinocadmium dilactate	19651-91-3	64601	NA 548	N/A	Inorganic-Cadmium,
· ·					Heavy metal
Arsenic	7440-38-2	NA 121	710	Herbicide,	Inorganic-arsenic,
·				Insecticide,	Heavy metal
A				Rodenticide	
Arsenic acid	7778-39-4	6801	40	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenic disulfide	5.6300.00.0	6001	371.00	Rodenticide	
Arsenic distillinde	56320-22-0	6901	NA 98	Herbicide,	Inorganic-arsenic,
,				Insecticide,	Heavy metal
Arsenic pentoxide	1303-28-2	6802	621	Rodenticide	
Asseme pentoxide	1303-26-2	0802	631	Fungicide,	Inorganic-arsenic,
		· ·		Insecticide,	Heavy metal
				Rodenticide, Herbicide	
Arsenic sulfide	12612-21-4	6901	NA 99	Herbicide,	Imamonia amani
	12012 21 4	0501	INA 33	Insecticide,	Inorganic-arsenic,
				Rodenticide	Heavy metal
Arsenic trioxide	1327-53-3	7001	42	Herbicide,	Inorganic-arsenic,
· ·		,		Insecticide,	Heavy metal
				Rodenticide	l liouvy motur
Arsenic trisulfide	1303-33-9	6901	NA 97	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Rodenticide	, <b>,</b>
Arsonic acid, ammonium salt	58829-95-1	<del>#####</del>	NA 105	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Wood	
	1000 04 1			Preservative	
Asbestos	1332-21-4	99301	2398	Insecticide	Inorganic
Barium carbonate	513-77-9	7501	3060	N/A	Inorganic
Barium chloride	10361-37-2	NA 141	3061	N/A	Inorganic
Barium fluosilicate	17125-80-3	75302	NA 688	Insecticide	Inorganic
Barium metaborate	13701-59-2	11101	973	Fungicide	Inorganic
Barium nitrate	10022-31-8	NA 186	NA 185	Repellent	Inorganic
Barium polysulfide	50864-67-0	76704	NA 709	Insecticide,	Inorganic
D				Fungicide	
Barium sulfate	7727-43-7	7502	2411	N/A	Inorganic
Basic copper arsenate	16102-92-4	######	NA 132	Herbicide,	Inorganic-arsenic,
	•			Insecticide, Rodenticide	Heavy metal,
					Inorganic-Copper

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	I I Too Town	T 61
		Code	Code	Use Type	Chemical Class
Basic lead silicate	53466-66-3	48003	NA 417	N/A	Inorganic-Lead, Heavy metal
Bentonite	1302-78-9	NA 496	1399	Adjuvant	Inorganic
Blast furnace slag	NA 239	NA 477	2425	N/A	Inorganic
Borax	1303-96-4	11102	79	Insecticide,	
		11102	'	Herbicide,	Inorganic
Bordeaux mixture	NA 240	NA 478	80	Fungicide	Inorganic-Copper
Boric acid	10043-35-3	11001	769	Insecticide	
Boric acid(H4B6O11), zinc	12447-61-9	#####	5094	Fungicide	Inorganic
salt(1:2)			3094	rungicide	Inorganic-Zinc
Boric oxide	1303-86-2	11002	2090	Insecticide	Inorganic
Boron	7440-42-8	#####	2426	N/A	Inorganic
Boron sodium oxide	12179-04-3	11110	NA 116	Insecticide	Inorganic
(B4Na2O7), pentahydrate Bromine	7706.05.6				
	7726-95-6	8701	2296	Microbiocide	Inorganic
Bromine chloride	13863-41-7	20504	2323	Microbiocide	Inorganic
Cadmium	7440-43-9	NA 460	2438	N/A	Inorganic-Cadmium,
0.1					Heavy metal
Cadmium carbonate	513-78-0	12901	93	N/A	Inorganic-Cadmium,
Cadmium chloride	10108-64-2	12902	04	27/1	Heavy metal
•	10108-04-2	12902	94	N/A	Inorganic-Cadmium, Heavy metal
Cadmium cocoate	72869-63-7	NA 459	3085	N/A	Inorganic-Cadmium,
					Heavy metal
Cadmium oxide	1306-19-0	######	NA 130	N/A	Inorganic-Cadmium,
					Heavy metal
Cadmium perborate	NA 969	NA 461	3086	N/A	Inorganic-Cadmium,
		·			Heavy metal
Cadmium sebacate	939499	12903	699	N/A	Inorganic-Cadmium,
Cadmium succinate	141.00.4				Heavy metal
Cadmum succinate	141-00-4	12904	92	· N/A	Inorganic-Cadmium,
Cadmium sulfate	10124-36-4	12905	NA 123	N/A	Heavy metal Inorganic-Cadmium,
					Heavy metal
Cadmium yellow pigments	NA 967	NA 448	2439	N/A	Inorganic-Cadmium,
					Heavy metal
Calcareous shale	NA 230	NA 449	3595	N/A	Inorganic
Calcium arsenate	7778-44-1	13501	96	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
ļ		j		Rodenticide,	
Calcium arsenite	- FO 404 FD 4			Molluscicide	
Calcium arsenite	53404-59-4	13602	NA 129	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Calcium carbide	75 20 7	NTA 450		Rodenticide	
Calcium carbine  Calcium carbonate	75-20-7	NA 450	1571	Repellent	Inorganic
Calcium cardonate	471-34-1	73502	1007	pH Adjustment,	Inorganic
	ľ	J		Fungicide,	
[		1		Microbiocide,	
Calcium carbonate, treated	NA 968	NA 451	2440	Herbicide	
and the state of t	110 300	1724 431	2440	pH Adjustment,	Inorganic
	j	j		Fungicide,	
	Į.	İ		Microbiocide,	
Calcium chlorate	10137-74-3	73302	NA 682	Herbicide Defoliont	Total
	1010/-/17-5	13302	1147 007	Defoliant, Herbicide,	Inorganic
		İ		Microbiocide	
				1411010010CIGE	

Chemical Name	CAS Number	U.S. EPA PC		<u>Use Type</u>	Chemical Class
Calcium chloride	10043-52-4	<u>Code</u> 75605	<u>Code</u> 920	Tunnisida	
Calcium emoride	10043-32-4	73003	920	Fungicide,	Inorganic
			1	Herbicide,	
· ·		1	ł	Insecticide,	
_	1		ļ	Microbiocide,	
· ·				Molluscicide,	
		1		Dessicant, Plant	•
		1	]	Growth	
				Regulator	
Calcium cyanide	592-01-8	74001	176	Rodenticide	Inorganic
Calcium hydroxide	1305-62-0	75601	99	pH Adjustment,	Inorganic
			]	Fungicide,	_
				Microbiocide,	
				Herbicide	
Calcium hypochlorite	7778-54-3	14701	326	Algaecide,	Inorganic
,				Water	
		]		Treatment	
Calcium nitrite	13780-06-8	76202	NA 701	Rodenticide,	Inorganic
		,		Microbiocide	morganic
· Calcium phosphate	10103-46-5	NA 195	NA 195	Rodenticide	Inorganic
Calcium phosphate, tribasic	7758-87-4	76401	1607	Rodenticide,	Inorganic
	1	1 70.01	1007	Fungicide,	тогдаще
		,		Herbicide,	
				Microbiocide	
Calcium silicate	10101-39-0	72607	1908	Insecticide,	<del></del>
Calcium smeate	10101-39-0	72007	1908	,	Inorganic
				Adjuvant,	
				Fungicide,	i
C-1-i16-4-	7770 10 0	5600		Microbiocide	
Calcium sulfate	7778-18-9	5602	2442	Insecticide,	Inorganic
C-1-:	10101 44 4		221 4 42	Herbicide	
Calcium sulfate dihydrate	10101-41-4	203	NA 163	Insecticide,	Inorganic
G-1-:	10104 41 1	20101		Herbicide	
Calcium thiosulfate	10124-41-1	80101	930	Insecticide,	Inorganic
		[ · '		Fungicide,	
		,		Herbicide	
Calcium-zinc LN 193	NA 653	NA 120	3871	N/A	Inorganic-Zinc
(complex)					
Calomel	10112-91-1	52201	100	Fungicide	Inorganic-Mercury,
			i		Heavy metal
Carbon	7440-44-0	16001	712	Water	Inorganic
				Treatment,	_
				Rodenticide	
Carbon black pigment	1333-86-4	NA 442	2445	Dye	Inorganic
Carbon dioxide	124-38-9	16601	2207	Fumigant,	Inorganic
				Insecticide,	
				Rodenticide	
Carbon disulfide	75-15-0	16401	108	Fumigant,	Inorganic
•			- / -	Solvent,	
				Breakdown	
				product,	
				Nematicide	
Chlorinated trisodium	56802-99-4	#####	2214	Water	Increasio
phosphate (prior TSP &	30002-33-4	<i>111111111</i>	2214		Inorganic
sodium hypochlorite)	[			Treatment	
Chlorine	7782-50-5	20501	131	Migratical	
Cinoring	1102-30-3	20301	121	Microbiocide,	Inorganic
				Water	
				Treatment	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	TT (7)	
<u>GEOTIMORY TYRENCE</u>	OAB IVIIIIOCI	Code	Code	<u>Use Type</u>	Chemical Class
Chlorine dioxide	10049-04-4	20503	2053	Microbiosida	ļ
	10015 01 -	20303	2033	Microbiocide, Water	Inorganic
		}	ļ	Treatment	
Chlorophyllin	11006-34-1	NA 191	NA 190	Fungicide,	Inorganic-Copper,
				Microbiocide	Botanical
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	Inorganic-
				Herbicide,	Chromium(VI),
		·		Microbiocide	Inorganic-Zinc,
	4044				Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood	Inorganic-
	i			Preservative	Chromium(VI),
Chromic acid	7738-94-5	01101	1100		Heavy metal
Chronic acid	//38-94-3	21101	1188	Wood	Inorganic-
·				Preservative	Chromium(VI),
Chromic oxide	1308-38-9	21103	NA 173	3771	Heavy metal
·	1500-56-9	21103	NA 1/3	Wood Preservative	Inorganic-
				rieservative	Chromium(VI), Heavy metal
Chromium dioxide	12018-01-8	NA 411	2470	N/A	Inorganic
Cobaltous sulfate	10124-43-3	NA 114	3110	N/A	Inorganic
Copper	7440-50-8	22501	714	Fungicide	Inorganic-Copper
Copper (from triethanolamine	82027-59-6	24403	NA 198	Algaecide	Inorganic-Copper  Inorganic-Copper
complex)		_ 1,55	1111150	riigaccide	morgame-copper
Copper 2-ethylhexanoate	22221-10-9	41201	2235	Fungicide	Inorganic-Copper
Copper 3-phenylsalicylate	1250682	23801	NA 191	N/A	Inorganic-Copper
Copper 8-quinolinoleate	10380-28-6	24002	159	Fungicide,	Inorganic-Copper
				Microbiocide	morganic-Copper
Copper abietate	10248-55-2	23301	NA 184	Fungicide	Inorganic-Copper
. Copper acetate	831632	44002	147	Fungicide	Inorganic-Copper
Copper ammonium acetate	NA 1544	NA 225	NA 225	Fungicide	Inorganic-Copper
Copper ammonium carbonate	33113-08-5	22703	1762	Fungicide	Inorganic-Copper
Copper ammonium complex	16828-95-8	22702	3550	Fungicide	Inorganic-Copper
Copper arsenate	10103-61-4	22801	NA 178	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper
Copper arsenite	10290-12-7	22401	NA 177	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
Copper as elemental from	50376-91-5	24404	374 100	Rodenticide	Inorganic-Copper
copper - etidronic acid complex	30370-31-3	24404	NA 199	N/A	Inorganic-Copper
Copper beta cyclodextrin	NA 1366	NA 193	NA 193	Ennaisi 1	Transaction C
hydroxide	1.1.1.1.00	11/2 193	TAV 133	Fungicide	Inorganic-Copper
Copper bronze powder	7440-50-8	22501	1457	Antifoulant	Inorgania Compa
Copper carbonate, basic	1184-64-1	22901	60	Fungicide,	Inorganic-Copper Inorganic-Copper
		22,01	00	Algaecide,	morganic-Copper
				Insecticide	
Copper chloride (anhydrous)	1344-67-8	23802	NA 192	N/A	Inorganic-Copper
Copper chloride (dihydrate)	10125-13-0	23701	NA 190	N/A	Inorganic-Copper
Copper citrate	10402-15-0	44005	1406	N/A	Inorganic-Copper
Copper citrate chelate	NA 961	NA 387	3547	N/A	Inorganic-Copper
Copper complex with ammonia	67989-88-2	#####	NA 130	Fungicide	Inorganic-Copper
and ethylene diamine	ĺ			8	Serie Cobbet
tetraacetate					
Copper cresylate	12379-42-9	23001	NA 181	Fungicide	Inorganic-Copper
Copper	53404-24-3	41202	NA 349	N/A	Inorganic-Copper
				<del></del>	

Oharria 137	CACS:	ITTO ED: ==	104 00	T	
Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
dehydroabietylammonium 2-					
ethylhexanoate					
Copper dihydrazinium sulfate	33271-65-7	50504	753	N/A	Inorganic-Copper
Copper ethanolamine complex	14215-52-2	24409	NA 201	Algaecide	Inorganic-Copper
Copper ethanolamine complexes, mixed	NA 1044	NA 146	3551	Algaecide	Inorganic-Copper
Copper ethylenediamine complex	13426-91-0	24407	3549	Herbicide	Inorganic-Copper
Copper gluconate chelate	814-91-5	23305	3548	N/A	Inorganic-Copper
Copper hydrazinium sulfate	53433-02-6	50501	NA 418	Fungicide	Inorganic-Copper
Copper hydroxide	20427-59-2	23401	151	Fungicide,	Inorganic-Copper
				Microbiocide, Nematicide	oppor
Copper hydroxide - triethanolamine complex	NA 1017	NA 105	1826	N/A	Inorganic-Copper
Copper isodecanoate	84082-88-2	41221	NA 354	N/A	Inorganic-Copper
Copper isononanoate	72915-82-3	41211	NA 352	N/A	Inorganic-Copper
Copper isooctanoate	88859-94-3	41204	NA 350	N/A	Inorganic-Copper
Copper lactate	16039-52-4	23302	NA 185	N/A	Inorganic-Copper
Copper linoleate	7721-15-5	23303	1110	N/A	Inorganic-Copper
Copper metaborate	39290-85-2	22802	NA 179	N/A	Inorganic-Copper
Copper monoethanolamine complex	NA 960	NA 384	3552	N/A	Inorganic-Copper
Copper naphthenate	1338-02-9	23102	153	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper naphthenate	1338-02-9	6000	NA 172	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper naphthenate	1338-02-9	6300	NA 172	Wood Preservative, Insecticide, Fungicide, Dog and Cat Repellent	Inorganic-Copper
Copper nitroacetate	22221-12-1	23201	NA 183	N/A	Inorganic-Copper
Copper octanoate	20543-04-8	23306	5225	Fungicide	Inorganic-Copper
Copper oleate	10402-16-1	23304	154	Fungicide	Inorganic-Copper
Copper oxide (ic)	1317-38-0	42401	2231	Fungicide, Insecticide	Inorganic-Copper
Copper oxide (ous)	1317-39-1	25601	175	Fungicide, Insecticide	Inorganic-Copper
Copper oxychloride	1332-40-7	8001	156	Fungicide	Inorganic-Copper
Copper oxychloride (Cu2Cl(OH)3)	1332-65-6	23501	NA 186	Fungicide	Inorganic-Copper
Copper oxychloride sulfate	8012-69-9	23503	158	Fungicide	Inorganic-Copper
Copper oxysulfate	12158-97-3	23504	NA 188	N/A	Inorganic-Copper
Copper oxysulfate	82010-79-5	23504	NA 189	N/A	Inorganic-Copper
Copper pentachlorophenate	15773-35-0	63011	NA 512	Wood	Chlorinated Phenol,

Code	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	TT TD	T -
Copper phosphate   10103-48-7   22902   NA 180   N/A   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   NA 381   2479   Dye   Inorganic-Copper   147-14-8   155   Fungicide   Inorganic-Copper   147-14-8   147-14-5   147-	<u>Shormear Harrie</u>	CAS Number			Use Type	Chemical Class
Copper phosphate   147-14-8   NA 381   2479   Dye   Inorganic-Copper Copper phthalocyanine   147-14-8   NA 381   2479   Dye   Inorganic-Copper Copper phrophosphate   10102-90-6   69701   NA 663   N/A   Inorganic-Copper acids   9007-39-0   23104   155   Fungicide   Inorganic-Copper acids   Copper salts of the acids of tall oil   61789-22-8   23103   NA 182   N/A   Inorganic-Copper Copper solitate   1344-72-5   24301   NA 197   N/A   Inorganic-Copper Copper solitate   NA 1023   NA 121   755   N/A   Inorganic-Copper Inorganic-Copper Solitate   NA 1023   NA 121   755   N/A   Inorganic-Copper Copper solitate (anhydrous)   7758-98-7   24408   1778   Fungicide, Algaecide, Molluscicide   Algaecide, Molluscicide   N/A   Molluscicide   N/A   Molluscicide			<u>5040</u>	Couc	Microbiocide, Algaecide,	Inorganic-Copper
Copper phthalocyanine	Copper phosphate	10103-48-7	22902	NA 180		T
Copper pyrophosphate						
Copper salts of fatty and rosin acids  Copper salts of the acids of tall of 1789-22-8 and of 1879-22-8 and o						
Copper salts of the acids of tall of 1789-22-8 oil   Copper salts of the acids of tall of 1789-22-8 oil   Copper salts of the acids of tall of 1789-22-8 oil   Copper solicate   Copper solica						
Copper silicate Copper sodium sulfate-phosphate complex Copper sulfate (anhydrous) Copper sulfate (anhydrous) Copper sulfate (basic) Copper sulfate (basic) Copper sulfate (basic) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate (pentahydrate) Copper sulfate ethylene diamine Copper sulfate, monohydrate Copper sulfate, tri-basic Copper sulfate, tri-basic Copper sulfate, tri-basic Copper sulfate, tri-basic Copper sulfate, tri-basic NA 1384 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 195 NA 196 NA 197 N/A Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Copper triethanolamine Complex Copper-zinc chromate complex NA 1384 NA 195 NA 195 NA 197 NA 197 N/A Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Copper-zinc sulfate complex NA 1384 NA 195 NA 195 NA 197 NA 197 NA 197 NA 197 NA 198 NA 199 NA 199 NA 199 NA 190 NA 191 NA 191 NA 191 NA 192 NA 193 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 195 NA 194 NA 196 NA 197 NA 194 NA 198 NA 199 NA 198 NA 199 N			25101	155	rungicide	morganic-Copper
Copper sodium sulfate-phosphate complex Copper sulfate (anhydrous)  7758-98-7  24408  1778  Fungicide, Algaecide, Molluscicide Copper sulfate (basic)  1344-73-6  1344-73-6  162  Fungicide, Algaecide, Molluscicide Copper sulfate (pentahydrate)  7758-99-8  24401  161  Algaecide, Fungicide, Inorganic-Copper Inorganic-Copper  Water Treatment, Molluscicide Copper sulfate ethylene diamine  Copper sulfate, tri-basic  NA 1334  NA 195  NA 194  Perpicide, Algaecide, Molluscicide Inorganic-Copper  NA 1384  NA 195  NA 194  Herbicide, Algaecide, Fungicide, Algaecide, Molluscicide Inorganic-Copper  Inorganic-Copp	oil	61789-22-8	23103	NA 182	N/A	Inorganic-Copper
Copper soldium sulfate-phosphate complex Copper sulfate (anhydrous)  Copper sulfate (anhydrous)  Copper sulfate (basic)  Copper sulfate (basic)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate ethylene diamine  Copper sulfate, monohydrate  Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Repugicide, Nematicide Nematicide Nematicide Na 132  Copper sulfate, pentahydrate  Copper sulfate, pentahydrate  Copper sulfate, monohydrate  Copper sulfate, pentahydrate  Copper sulfate pentahydrate  Copper sulfat		1344-72-5	24301	NA 197	N/A	Inorganic-Conner
Copper sulfate (anhydrous)  Copper sulfate (basic)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate ethylene diamine  Copper sulfate, monohydrate  Copper sulfate, tri-basic  Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Copper triethanolamine  Copper triethanolamine  Copper sulfate complex  NA 1344-74-7  Copper-zine chromate complex  Copper-zine sulfate complex  Copper-zine sulfate complex  NA 959  NA 382  Copper-zine sulfate complex, monohydrate  Copper-zine sulfate complex, monohydrate  Copper-zine sulfate complex, monohydrate  Copper-zine sulfate complex, monohydrate  Copper-zine sulfate complex  Copper		NA 1023	NA 121			
Copper sulfate (basic)						Copper
Copper sulfate (pentahydrate)  Copper sulfate (pentahydrate)  Copper sulfate ethylene diamine  Copper sulfate, monohydrate  Copper sulfate, tri-basic  Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Copper triethanolamine complex  Copper-zinc chromate complex  Copper-zinc sulfate complex  NA 959  NA 382  NA 171  Fungicide  Inorganic-Zinc, Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Zinc, Inorganic-Copper  Inorganic-Copper					Algaecide,	Inorganic-Copper
Copper sulfate ethylene diamine  Copper sulfate, monohydrate  Copper sulfate, tri-basic  Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Herbicide, Algaecide, Muluscicide, Mater Treatment Algaecide, Molluscicide  NA 1384  NA 195  NA 194  Herbicide, Algaecide, Muluscicide  Ropper triethanolamine complex  Copper triethanolamine complex  Copper-zinc chromate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  NA 959  NA 382  NA 195  NA 196  NA 197  Fungicide  Wood Preservative  Copper-zinc sulfate complex, monohydrate  Copper-zinc sulfate complex, monohydrate  Crag turf fungicide 331 (Cd-Cu-Ca-Zn-Chromate)  Cryolite  15096-52-3  75101  173  Insecticide Inorganic-Copper Inorganic-Copper Inorganic-Camium, Inorganic-Chromium(VI), Inorganic-Camium, Inorganic-Chromium(VI), Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Compunity(I), Inorganic-Compunity(I), Inorganic-Copper Inorganic-Copper Inorganic-Copper Inorganic-Compunity(I), Inorganic-Camium, Inorganic-Chromium(VI), Inorganic-Cinc, Heavy metal Cuprammonium NA 1382  NA 195  NA 194  Fungicide Inorganic-Copper Inorgan					Algaecide,	Inorganic-Copper
Copper sulfate ethylene diamine  Copper sulfate, monohydrate  Copper sulfate, monohydrate  Copper sulfate, tri-basic  Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Herbicide, Algaecide, Molluscicide  Copper triethanolamine complex  Copper-zinc chromate complex  Copper-zinc sulfate complex  NA 959  NA 382  1751  Fungicide  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Copper-zinc sulfate complex  Inorganic-Copper  Inorgan	Copper sulfate (pentahydrate)	7758-99-8	24401	161	Fungicide, Insecticide, Water Treatment, Molluscicide,	Inorganic-Copper
Copper triethanolamine complex  Copper-zinc chromate complex  Copper-zinc sulfate complex, monohydrate  Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  Cryolite  Copper-zinc type in the proper in th	diamine			2480		Inorganic-Copper
Copper sulfate, tri-basic  NA 1384  NA 195  NA 194  Herbicide, Algaecide, Fungicide, Water Treatment  Copper triethanolamine complex  Copper-zinc chromate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  NA 959  NA 382  NA 195  NA 194  Herbicide, Algaecide, Fungicide, Water Treatment  Inorganic-Copper  Chromium(VI), Inorganic-Zinc, Heavy metal, Inorganic-Zinc, Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Cupramonium  Cupramonium  NA 1384  NA 195  NA 195  NA 197  Insecticide  Inorganic-Copper  Inorganic-Copper  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Cupramonium  NA 1384  NA 195  NA 195  NA 195  NA 196  Inorganic-Copper  Inorganic-C		10257-54-2	24402	1789	Algaecide,	Inorganic-Copper
Copper-zinc chromate complex  Copper-zinc chromate complex  Copper-zinc chromate complex  1344-74-7  21003  163  Fungicide, Wood Preservative  Copper-zinc sulfate complex  Copper-zinc sulfate complex  NA 959  NA 382  1751  Fungicide  Inorganic-Copper  Inorganic-Cinc, Heavy metal, Inorganic-Cinc, Inorganic-Cinc, Inorganic-Cinc, Inorganic-Copper  Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  Cryolite  Cryolite  15096-52-3  75101  173  Insecticide  Inorganic-Copper  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Chromium(VI	Copper sulfate, tri-basic	NA 1384	NA 195	NA 194	Herbicide, Algaecide, Fungicide, Water	Inorganic-Copper
Copper-zinc sulfate complex 55072-57-6 8102 164 Fungicide Inorganic-Zinc, Heavy metal, Inorganic-Copper Copper-zinc sulfate complex, monohydrate Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate) 12001-20-6 21006 NA 171 Fungicide Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal Cuprammonium NA 1382 NA 195 NA 194 Fungicide Inorganic-Copper Inorganic Copper Inorganic-Copper Inorganic-Copper Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal Inorganic Inor		68027-59-6	NA 125	1615		Inorganic-Copper
Copper-zinc sulfate complex, monohydrate  Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  Cryolite  Cryolite  Cuprammonium  NA 1382  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18102  18103  18103  18103  18103  18103  18103  18103  18103  18103  18103  18103  18103  18104  18103  18	Copper-zinc chromate complex	1344-74-7	21003	163	Wood	Chromium(VI), Inorganic-Zinc, Heavy metal,
Copper-Zinc sultate complex, monohydrate  Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  Cryolite  Cryolite  Cuprammonium  NA 1382  NA 382  1751  Fungicide  Fungicide  Inorganic-Zinc, Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Cuprammonium  NA 1382  NA 195  NA 382  1751  Fungicide  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Inorganic-Copper  Cuprammonium  NA 1382  NA 195  NA 194  Fungicide  Inorganic-Copper	Copper-zinc sulfate complex	55072-57-6	8102	164	Fungicide	Inorganic-Zinc,
Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  12001-20-6  21006  NA 171  Fungicide  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  Cuprammonium  NA 1382  NA 195  NA 194  Fungicide  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper  Inorganic-Copper		NA 959	NA 382	1751	Fungicide	Inorganic-Zinc,
Cryolite 15096-52-3 75101 173 Insecticide Inorganic Cuprammonium NA 1382 NA 195 NA 194 Fungicide Inorganic-Copper	Crag turf fungicide 531 (Cd- Cu-Ca-Zn-Chromate)		21006	NA 171	Fungicide	Inorganic-Cadmium, Inorganic- Chromium(VI), Inorganic-Zinc,
Cuprammonium NA 1382 NA 195 NA 194 Fungicide Inorganic-Copper			75101	173	Insecticide	
Currie contonue de 10000 00 0				NA 194		
22001   2403   Wood   morganic-arsenic,	Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Inorganic-arsenic,

Chemical Name	CAS Number	U.S. EPA PC	CA CI	TT	
<u>SHOMA TAME</u>	CAS Number	<u>Code</u>	CA Chen Code	Use Type	Chemical Class
				Preservative	Heavy metal, Inorganic-Copper
Cupric ferric subsulfate complex	12168-20-6	-42402	NA 365	Molluscicide	Inorganic-Copper
Cupric fluosilicate	12062-24-7	75309	NA 692	Insecticide	Inorganic-Copper
Cupric gluconate	527-09-3	24405	3117	Fungicide	Inorganic-Copper
Cupric nitrate	3251-23-8	76102	3118	N/A	Inorganic-Copper
Cuprous and cupric oxide, mixed	82010-82-0	42403	NA 366	N/A	Inorganic-Copper
Cuprous chloride (Cu2Cl2)	7758-89-6	#####	5597	Fungicide	Inorganic-Copper
Cuprous iodide	7681-65-4	#####	NA 902	N/A	Inorganic-Copper
Cuprous sulfide	22205-45-4	#####	NA 124	N/A	Inorganic-Copper
Cuprous thiocyanate	1111-67-7	25602	2108	Microbiocide	Inorganic-Copper
Device (swimming pool algaecide, copper generating) no guarantee required	NA 1504	NA 222	NA 222	Algaecide	Inorganic-Copper
Device (swimming pool algaecide, peroxide) no guarantee required	NA 1505	NA 222	NA 222	Algaecide	Inorganic
Device (swimming pool algaecide, salt in pool) no guarantee required	NA 1506	NA 222	NA 222	Algaecide	Inorganic
Di-potassium salts of phosphorous acid	13492-26-7	76416	NA 704	Fungicide, Microbiocide	Inorganic
Diammonium phosphate	7783-28-0	NA 819	654	Insecticide, Fungicide, Herbicide, Microbiocide, pH Adjustment	Inorganic
Diatomaceous earth	7631-86-9	72605	195	Insecticide, Molluscicide	Inorganic
Diatomaceous earth, other related	NA 1155	NA 173	90195	Insecticide, Molluscicide	Inorganic
Dihydrogen {ethylenediaminetetraacetato(4 -)}cuprate(2-)	54453-03-1	24406	NA 200	N/A	Inorganic-Copper
Disodium EDTA-copper	14025-15-1	NA 296	3173	N/A	Inorganic-Copper
Disodium mono ethanolamine phosphate  Disodium octaborate	53404-45-8	76410		pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
anhydrous	12008-41-2	11107	5053	Insecticide	Inorganic
Disodium octaborate tetrahydrate	12280-03-4	11103	1800	Insecticide, Herbicide	Inorganic
Disodium phosphate	7558-79-4	76403	2534	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
EDTA diammonium copper salt	7379-26-2	39117	1613	Algaecide	Inorganic-Copper
EDTA, copper complex	12276-01-6	39105	1135	Algaecide	Inorganic-Copper
EDTA, disodium zinc salt	14025-21-9	NA 274	3189	N/A	Inorganic-Zinc
Fatty acid* - silver complex *(100% C8)	24927-67-1	72505	NA 675	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I I a Tan	
<u>Significal Ivanio</u>	CASIVALIOCI	Code	Code	Use Type	Chemical Class
Feldspar	68476-25-5	NA 118	3656	N/A	Tonana
Ferric chloride	7705-08-0	34901	3205	Herbicide	Inorganic
Ferric oxide	1332-37-2	NA 104	3206	N/A	Inorganic
Ferric sulfate (anhydrous)	10028-22-5	34902	1811		Inorganic
Ferrous ammonium sulfate	10025-22-3	50506	1307	Herbicide	Inorganic
Ferrous ammonium sulfate	7783-85-9	50509		Herbicide	Inorganic
hexahydrate			NA 421	Herbicide	Inorganic
Ferrous sulfate	7720-78-7	NA 120	289	Herbicide, Molluscicide	Inorganic
Ferrous sulfate (monohydrate)	17375-41-6	50507	1812	Herbicide,	Inorganic
Formaria	7700 40 0			Defoliant	
Ferrous sulfate heptahydrate	7782-63-0	50502	1687	Herbicide	Inorganic
Granite	NA 105	NA 209	3663	N/A	Inorganic
Graphite	7782-42-5	NA 210	3217	N/A	Inorganic
· Hydrated lime	1302-62-0	NA 194	3669	pH Adjustment,	Inorganic
				Fungicide,	-
				Microbiocide,	
Hydriodic acid	10024.05.0	16015		Herbicide	
	10034-85-2	46912	NA 408	N/A	Inorganic
Hydrocyanic acid	74-90-8	45801	NA 388	Fumigant	Inorganic
Hydrofluoric acid	7664-39-3	45601	NA 387	N/A	Inorganic
Hydrogen chloride	7647-01-0	45901	329	Fumigant,	Inorganic
				Fungicide,	
				Nematicide, pH	
				Adjustment,	
Hydrogen peroxide	7722 04 1	505	450	Herbicide	
i i i juridgen peroxide	7722-84-1	595	1794	Microbiocide,	Inorganic
				Fungicide,	
				Herbicide,	
Hydrogen sulfide	2147416	NA 227	NA 227	Rodenticide	
i i i i i i i i i i i i i i i i i i i	2147410	NA 221	NA 227	Breakdown	Inorganic
Hydrophosphorous acid	NA 95	NA 189	2600	product N/A	
Hydroxymercury cresol	12379-66-7	46001	NA 390	Microbiocide	Inorganic
	12373 00-7	40001	IVA 390	Micropiocide	Inorganic-Mercury,
: Hypochlorous acid	7790-92-3	#####	NA 110	Water	Heavy metal, Phenols
			142110	Treatment,	Inorganic
•				Microbiocide,	
				pH Adjustment	
Hypoiodous acid	14332-21-9	#####	NA 153	N/A	Inorganic
Inorganic phosphate	NA 940	NA 169		pH Adjustment,	Inorganic
				Fungicide,	morganic
		•		Herbicide,	
				Microbiocide	ľ
Iodic acid	7782-68-5	46902	NA 405	N/A	Inorganic
Iodine	7553-56-2	46905	718	Microbiocide,	Inorganic
			+	Fungicide,	morganic
				Herbicide	1
Iron	7439-89-6	NA 121	655	N/A	Inorganic
Iron oxide (Fe2O3)	1309-37-1	#####	NA 870	Herbicide	Inorganic
Iron oxide pigment	NA 942	NA 175	2618	Dye	Inorganic
Iron phosphate	10045-86-0	34903	5014	Molluscicide	Inorganic
Kaolin	1332-58-7	#####	2629	Insecticide,	Inorganic
				Adjuvant,	morganic
	1			Fungicide,	
	······································				

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	<u>Code</u>		
	1			Microbiocide	
Lauric acid, barium cadmium salt	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium, Heavy metal
Lead	7439-92-1	NA 134	2638	N/A	Inorganic-Lead, Heavy metal
Lead acetate	301-04-2	48001	NA 415	N/A	Inorganic-Lead, Heavy metal
Lead arsenate	7784-40-9	13503	353	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Inorganic-lead, Heavy metal
Lead arsenate, basic	1327-31-7	13502	354	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Inorganic-lead, Heavy metal
Lead metasilicate	NA 938	NA 138	1106	N/A	Inorganic-Lead, Heavy metal
Lead monoxide	10190-55-3	NA 123	1271	N/A	Inorganic-Lead, Heavy metal
Lead naphthenate	61790-14-5	48004	3296	N/A	Inorganic-Lead, Heavy metal
Lignin sulfonic acid, copper salt	NA 933	NA 126	1925	N/A	Inorganic-Copper
Lignin sulfonic acid, zinc salt	NA 1014	NA 102	1768	N/A	Inorganic-Zinc
Lignin sulfonic acid, zinc, manganese & iron salts	NA 1030	NA 126	1771	N/A	Inorganic-Zinc
Lime	1305-78-8	75604	977	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Lime phosphate	NA 1432	NA 200	NA 199	Plant Growth Regulator	Inorganic
Lime-sulfur	1344-81-6	76702	358	Insecticide, Fungicide	Inorganic
Litharge	1317-36-8	48002	NA 416	N/A	Inorganic-Lead, Heavy metal
Lithium carbonate	554-13-2	NA 119	3924	pH Adjustment, Fungicide, Microbiocide, Herbicide	Inorganic
Lithium chloride	7447-41-8	#####	5318	N/A	Inorganic
Lithium hydroxide	1310-65-2	NA 143	3267	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Lithium hypochlorite	13840-33-0	14702	922	Microbiocide, Water Treatment	Inorganic
Lithium perchlorate	2150251	NA 115	3268	N/A	Inorganic
Magnesium aluminum fluosilicate	1327-43-1	75310	NA 693	Insecticide	Inorganic
Magnesium arsenate	10103-50-1	13504	NA 126	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Magnesium carbonate	546-93-0	73503	2654	pH Adjustment, Fungicide, Microbiocide, Herbicide	Inorganic

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Managina	1222	Code	<u>Code</u>		
Magnesium chlorate	10326-21-3	· <del>#####</del>	NA 155	Defoliant,	Inorganic
				Herbicide,	
3.6	<del></del>			Microbiocide	) į
Magnesium chloride	7786-30-3	13902	365	Molluscicide,	Inorganic
1			ļ	Herbicide,	- Landing
1	İ			Insecticide,	
		_		Microbiocide	1
Magnesium chloride,	7791-18-6	NA 110	2655	Molluscicide,	
hexahydrate				Herbicide,	morganic
				Insecticide,	
				Microbiocide	
Magnesium fluosilicate	16949-65-8	75304	NA 689	Insecticide	
Magnesium lime	NA 931	NA 111	3679	N/A	Inorganic
Magnesium nitrate	10377-60-3	NA 115	3269	<del></del>	Inorganic
	103//-00-3	14A 113	3209	Rodenticide,	Inorganic
Magnesium oxide	1309-48-4	9235	2656	Microbiocide	
	1509-40-4	9233	2656	pH Adjustment	Inorganic
•	] ]			Fungicide,	
1	i i		ĺ	Herbicide,	
Magnesium phosphide	12057.74.0			Microbiocide	
1414ghesiam phospinde	12057-74-8	66504	2085	Fumigant,	Inorganic
Magnesium silicate	1242.00.0			Rodenticide	
iviagnesium sincate,	1343-88-0	72601	NA 680	Insecticide,	Inorganic
,				Adjuvant,	
ł		ĺ		Fungicide,	
N				Microbiocide	
Magnesium silicate, hydrous	14807-96-6	NA 113	2658	Adjuvant	Inorganic
Magnesium sulfate	7487-88-9	50503	1339	Molluscicide,	Inorganic
			1	Adjuvant	morganic
Malachite (copper equivalent	1319-53-5	#####	NA 155	N/A	Inorganic-Copper
57%)					morganic-Copper
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate,
		i		- mgreide	Inorganic-Zinc
Maneb and nickel sulfate	8005-46-7	#####	NA 158	Fungicide	Dithiocarbamate,
hexahydrate (014505 +				x unbiolitic	
050505)				•	Inorganic-Nickel
Manganese (II) oxide	1344-43-0	NA 104	3274	N/A	T
Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic
_		15500	NA 12/		Inorganic-arsenic,
			1	Insecticide,	Heavy metal
Manganese carbamate	NA 55	NA 103	2272	Rodenticide	
Manganese sulfate	7785-87-7		3273	N/A	Inorganic
Manganous oxide		NA 105	658	N/A	Inorganic
Mercuric acetate	1344-43-0	NA 143	3275	N/A	Inorganic
Mercuric acetate	1600-27-7	52104	NA 441	N/A	Inorganic-Mercury,
Moroveia -1.1. : 1					Heavy metal
Mercuric chloride	7487-94-7	52001	372	Fungicide	Inorganic-Mercury,
No.					Heavy metal
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Inorganic-Mercury,
dithiocarbamate	1				Heavy metal,
				į	Dithiocarbamate
Mercuric iodide	7774-29-0	52003	NA 438	N/A	Inorganic-Mercury,
				4.1/2%	morganic-Mercury,
Mercuric oleate	1191-80-6	52105	3276	N/A	Heavy metal
			3270	IWA	Inorganic-Mercury,
Mercuric oxide	21908-53-2	52102	955	Francis	Heavy metal
		22102	200	Fungicide	Inorganic-Mercury,
					TT
Mercury	7439-97-6	52301	NA 26	N/A	Heavy metal Inorganic-Mercury,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	330 2,700	Chemical Class
					Heavy metal
Mercury naphthenate	1336-96-5	52101	NA 439	Wood Preservative, Insecticide, Fungicide	Inorganic-Mercury, Heavy metal
Mercury pentanedione	14024-55-6	52103	NA 440	N/A	Inorganic-Mercury, Heavy metal
Mercury phenate	588-66-9	52106	NA 442	N/A	Inorganic-Mercury, Heavy metal
Metallic silver	7440-22-4	72501	2125	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate, Inorganic-Zinc
Mica	12003-33-2	NA 118	3690	N/A	Inorganic
Mixed copper chelates or complex blend of copper salts	NA 1437	NA 213	NA 212	Fungicide	Inorganic-Copper
Molybdenum .	7439-98-7	NA 152	3903	N/A	Inorganic
Molybdic acid, disodium salt	7631-95-0	NA 135	2690	N/A	Inorganic
Mono-potassium salts of phosphorous acid	13977-65-6	76416	NA 705	Fungicide, Microbiocide	Inorganic
Monosodium phosphate	7558-80-7	76409	1772	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
N-(2-hydroxyethyl) ethylene diamine triacetic acid, copper salt	NA 1025	NA 122	1130	N/A	Inorganic-Copper
Neodecanoic acid, copper salt	50315-14-5	97503	NA 854	N/A	Inorganic-Copper
Nickel	7440-02-0	NA 121	762	N/A	Inorganic-Nickel
Nickel diethyl hexyl acid phosphate complex	NA 928	NA 53	3696	N/A	Inorganic-Nickel
Nickel sulfate (anhydrous)	7786-81-4	50508	NA 420	Fungicide	Inorganic-Nickel
Nickel sulfate hexahydrate	10101-97-0	50505	NA 419	: Fungicide	Inorganic-Nickel
Nitric acid	7697-37-2	45951	NA 389	N/A	Inorganic
Nitric acid technical	7697-37-2	NA 47	2703	N/A	Inorganic
Nitrogen trichloride	10025-85-1	NA 50	2705	N/A	Inorganic
Nitrogen, liquified	7727-37-9	######	2267	Insecticide	Inorganic
Nitrous oxide	10024-97-2	NA 115	3302	N/A	Inorganic
Noury dry cobalt 12%	NA 21	NA 33	2712	N/A	Inorganic
Nuxtra manganese 12% catalyst	NA 746	NA 135	2719	N/A	Inorganic
o-Phenylphenol, alkyl* amine - zinc salt of *(100% C18)	82010-74-0	64107	NA 533	Microbiocide	Phenols, Inorganic- Zinc
Oxalic acid	144-62-7	9601	899	Microbiocide	Inorganic
Ozone	10028-15-6	NA 228	NA 228	Water Treatment, Microbiocide	Inorganic
p-tert- Octylphenoxyethoxyethyl dimethyl benzyl ammonium mercuric chloride	53433-01-5	52002	NA 437	Microbiocide	Inorganic-Mercury, Heavy metal
Paris green	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Cl: 101
	<u> </u>	Code	Code	Ose Type	Chemical Class
Penta potassium triphosphate	13845-36-8	76412	3319	N/A	Inorganic
Pentachlorophenol, zinc salt	2917-32-0	63008	NA 510	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Zinc
				Microbiocide,	
				Algaecide,	
<u> </u>				Fungicide	
Perboric acid, sodium salt	NA 1160	NA 174	5452	Insecticide	Inorganic
Perboric acid, sodium salt,	10332-33-9	11105	5052	Insecticide	Inorganic
monohydrate Perchloric acid, calcium salt	13477-36-6	274 670	2224	ļ	
Perlite	NA 756	NA 670	3321	N/A	Inorganic
Peroxyacetic acid	79-21-0	NA 136 63201	2767 2291	N/A	Inorganic
T Cloxyacctic acid	79-21-0	03201	2291	Microbiocide,	Inorganic
				Fungicide, Herbicide,	
				Rodenticide	
Peroxydisulfuric acid	13445-49-3	63601	NA 524	N/A	Inorganic
Phosphine	7803-51-2	66500	3541	Fumigant,	Inorganic
·				Insecticide	
Phosphoric acid	7664-38-2	76001	871	Fungicide, pH	Inorganic
				Adjustment,	
				Herbicide,	
Phosphoric acid, disodium salt,	10028-24-7	76415	371 700	Microbiocide	
dihydrate	10028-24-7	76415	NA 703	pH Adjustment,	Inorganic
dinyurate				Fungicide, Herbicide,	
				Microbiocide	
Phosphoric acid,	7778-77-0	76413	2777	pH Adjustment,	Inorganic
monopotassium salt			_,,,	Fungicide,	·
	•			Herbicide,	
				Microbiocide	
Phosphoric acid, trisodium salt	56802-99-4	<del>#####</del>	3851	Water	Inorganic
(chlorinated)	12500 26 0	56000		Treatment	
Phosphorous acid	13598-36-2	76002	NA 699	Fungicide,	Inorganic
Phosphorus	7723-14-0	66502	513	Microbiocide	
Phosphorus pentasulfide	1314-56-3	NA 640	2778	N/A N/A	Inorganic
Polyoxin D zinc salt	146659-78-1	#####	NA 129	Fungicide	Inorganic
Potassium aluminum silicate	NA 996	NA 774	3344	Adjuvant	Inorganic-Zinc
Potassium aluminum sulfate	7784-24-9	NA 775	3345	Insecticide,	Inorganic Inorganic
			3313	Herbicide	morganic
Potassium arsenite	10124-50-2	13605	NA 131	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Rodenticide	
Potassium arsenite	13464-35-2	13605	NA 132	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Potassium azide	20762 60 1	24442114	NTA 000	Rodenticide	
Potassium bicarbonate	20762-60-1 298-14-6	##### 73508	NA 898	N/A	Inorganic
Potassium bifluoride	7789-29-9	75203	5037	Fungicide	Inorganic
Potassium bisulfate	7646-93-7	5605	NA 687 1860	N/A	Inorganic
- The state of the	, 0-10-23-1	3003	1000	pH Adjustment, Fungicide,	Inorganic
			i	Herbicide,	
				Microbiocide	
Potassium bromide	2138164	13903	1090	Microbiocide	Inorganic
Potassium carbonate	584-08-7	73504		pH Adjustment,	Inorganic
				Fungicide,	

Chemical Name	CAS Number	U.S. EPA PC	CA Chen	TI- T	
	<u> </u>	Code	Code	Use Type	Chemical Class
				Microbiocide, Herbicide	
Potassium chlorate	696616	73303	3347	Defoliant,	Inorganic
	İ			Herbicide,	
Potassium chloride	7447-40-7	13904	NA 137	Microbiocide	
Potassium chromate	7789-00-6	68301	700	N/A Wood	Inorganic
	]	00501	/00	Preservative	Inorganic- Chromium(VI),
				110301741176	Heavy metal
Potassium cyanate	590-28-3	68002	NA 600	N/A	Inorganic
Potassium cyanide	151-50-8	######	497	Rodenticide	Inorganic
Potassium dichromate	7778-50-9	68302	2167	Wood	Inorganic-
Potassium hexafluoroarsenate	17029-22-0	#####	274 160	Preservative	Chromium(VI)
- Company Monanta of Confederate	17029-22-0	######	NA 160	N/A	Inorganic-arsenic,
Potassium hydroxide	1310-58-3	75602	1306	pH Adjustment,	Heavy metal
				Fungicide,	Inorganic
				Herbicide,	
Detection by 11	7770		<u> </u>	Microbiocide	
Potassium hypochlorite Potassium iodate	7778-66-7	#####	NA 110	Microbiocide	Inorganic
Potassium iodate (KH(IO3)2)	2138256 13455-24-8	75703	NA 696	N/A	Inorganic
Potassium iodide	7681-11-0	75704	NA 697	N/A	Inorganic
Potassium mercuric iodide	7783-33-7	75701 52107	1003	Microbiocide	Inorganic
a supplied in the residence	//65-55-/	32107	NA 443	N/A	Inorganic-Mercury,
Potassium monopersulfate	10361-76-9	#####	NA 104	N/A	Heavy metal
Potassium nitrate	7757-79-1	76103	726	Rodenticide,	Inorganic Inorganic
			0	Microbiocide	morgame
Potassium nitrite	7758-09-0	76203	3356	Rodenticide,	Inorganic
Potassium permanganate	7700 64 7	- 60501		Microbiocide	
1 otassium permanganate	7722-64-7	68501	498	Fungicide,	Inorganic
		1		Algaecide,	
• •				Molluscicide, Microbiocide	
Potassium peroxydisulfate	7727-21-1	63602	1028	Microbiocide,	Inorganic
_				Fungicide,	morganic
·	}			Herbicide,	
Potassium peroxymonosulfate	10058-23-8	63604	1050	Rodenticide	
- constant peroxymonosurface	10038-23-8	63604	1859	Microbiocide,	Inorganic
		[		Fungicide, Herbicide,	
				Rodenticide	
Potassium peroxymonosulfate	37222-66-5	63607	NA 527	Microbiocide,	Inorganic
sulfate, (2KHSO5.KHSO4.K2SO4)				Fungicide,	
(21d1b03.K11304.K2S04)				Herbicide,	
Potassium peroxymonosulfate	70693-62-8	63607	NA 528	Rodenticide	
sulfate,	70033 02 0	05007	NA 326	Microbiocide, Fungicide,	Inorganic
(2KHSO5.KHSO4.K2SO4)		- 1		Herbicide,	
				Rodenticide	
Potassium phosphate	7778-53-2	76407	3358	pH Adjustment,	Inorganic
	]	1		Fungicide,	
				Herbicide,	
Potassium phosphate, dibasic	2138438	#####	3359	Microbiocide pH Adjustment,	Tenantia
		"""""	3339	Fungicide,	Inorganic
				- angionic,	

Chemical Name	CAS Number	U.S. EPA PC	04.67	T	
<u>Sacrifical France</u>	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
			Code	Herbicide,	<u> </u>
				Microbiocide	
Potassium phosphite	NA 1565	NA 229	5766	Fungicide	Inorganic
Potassium phosphonate	NA 1563	NA 227	NA 227	Fungicide	Inorganic
(phosphorous acid equivalent)				9	anoi ganto
Potassium polysulfide	37199-66-9	76703	NA 708	Insecticide,	Inorganic
Determine 1 1				Fungicide	
Potassium pyrophosphate	7320-34-5	76408	1175	pH Adjustment,	Inorganic
				Fungicide,	
				Herbicide,	
Potassium silicate	1312-76-1	72606	2826	Microbiocide	
	1312-70-1	72000	2620	Insecticide, Adjuvant,	Inorganic
				Fungicide,	
				Microbiocide	
Potassium sulfate	7778-80-5	5603	3362	Insecticide,	Inorganic
				Herbicide	. Morganio
Potassium sulfite	10117-38-1	NA 785	3364	Fungicide	Inorganic
Potassium tetraborate	1332-77-0	NA 144	3365	Insecticide	Inorganic
Potassium tetrathionate	13932-13-3	75903	NA 698	Insecticide,	Inorganic
Potassium thiocyanate	222.20.0	50001		Herbicide	
Potassium thiosulfate	333-20-0	68201	NA 605	Insecticide	Inorganic
rotassium mosumate	10233-00-8	80102	NA 773	Insecticide,	Inorganic
}				Fungicide,	
Potassium triiodide	12298-68-9	46917	5066	Herbicide	·
Propineb	12071-83-9	#####	NA 155	Microbiocide	Inorganic
	12071 03 3	"""""	14W 122	Fungicide, Microbiocide	Dithiocarbamate,
Pumice	1332-09-8	NA 150	3777	N/A	Inorganic-Zinc Inorganic
Quartz sand	NA 1363	NA 193	NA 192	Insect	Inorganic
				Repellent	morganic
Rock powder	NA 1375	NA 194	NA 194	N/A	Inorganic
Selenium and compounds	7782-49-2	72001 .	NA 31	N/A	Inorganic
Selenium disulfide	7488-56-4	72003	NA 673	N/A	Inorganic
Shale	NA 459	NA 821	3794	N/A	Inorganic
Silica aerogel	63231-67-4	72602	529	Insecticide,	Inorganic
	,		Ì	Adjuvant,	
.				Fungicide,	ļ
Silica gel	63231-67-4	72602	3557	Microbiocide	
g	03231 07-4	72002	3337	Insecticide, Adjuvant,	Inorganic
		ļ		Fungicide,	
			1	Microbiocide	
Silica hydrate	NA 461	NA 824	2853	N/A	Inorganic
Silica, crystalline-fused	60676-86-0	NA 823	2851	N/A	Inorganic
Silica, crystalline-quartz	14808-60-7	NA 138	2852	N/A	Inorganic
Silicic acid	1343-98-2	NA 825	3556	N/A	Inorganic
Silicon dioxide fresh water	NA 1524	NA 223	NA 223	Insecticide	Inorganic
fossils					
Silver acetate	563-63-3	72507	NA 676	Microbiocide,	Inorganic-Silver,
		ļ	ľ	Fungicide,	Heavy metal
Silver carbonate	534-16-7	72509	NIA CZO	Herbicide	
or our contact	JJ4-10-/	12309	NA 678	Microbiocide,	Inorganic-Silver,
			- 1	Fungicide, Herbicide	Heavy metal
Silver chloride	7783-90-6	72506	2324	Microbiocide,	Inorgania Cil-
					Inorganic-Silver,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
				Fungicide, Herbicide	Heavy metal
Silver copper zeolite	130328-19-7	#####	NA 110	Microbiocide	Inorganic-Silver, Heavy metal,
Silver fluoride	7775-41-9	72502	NA 674	Microbiocide, Fungicide, Herbicide	Inorganic-Copper Inorganic-Silver, Heavy metal
Silver iodide, colloidal	7783-96-2	NA 124	1556	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver nitrate	7761-88-8	72503	2856	Microbiocide, Fungicide, Herbicide, Plant Growth Regulator	Inorganic-Silver, Heavy metal
Silver orthophosphate (Ag3PO4)	7784-09-0	72510	NA 679	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	1301-96-8	######	NA 111	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver oxide (Ag4O4)	155645-89-9	######	NA 111	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver sodium hydrogen zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3)	NA 1166	72560	NA 164	Microbiocide	Inorganic-Silver, Heavy metal
Silver thiocyanate	1701-93-5	68203	NA 606	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver thiuronium acrylate co- polymer	53404-00-5	72701	NA 681	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver zeolite	130328-18-6	#####	NA 125	Microbiocide	Inorganic-Silver, Heavy metal
Silver zinc zeolite	130328-20-0	#####	NA 111	Microbiocide	Inorganic-Silver, Inorganic-Zinc, Heavy metal
Silver, ionic	14701-21-4	NA 169	5150	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Soapstone	NA 465	NA 829	3797	N/A	Inorganic
Sodium Sodium acid phosphate	7440-23-5	NA 830	2858	N/A	Inorganic
	7558-80-7	76409	1413	pH Adjustment, Fungicide, Herbicide, Microbiocide	Inorganic
Sodium acid pyrophosphate	7758-16-9	NA 831	3381	pH Adjustment	Inorganic
Sodium aluminate	1302-42-7	NA 145	3382	N/A	Inorganic
Sodium aluminum fluosilicate	53404-77-6	75308	NA 691	Insecticide	Inorganic
Sodium aluminum phosphate	7785-88-8	NA 832	3383	N/A	Inorganic
Sodium arsenate	13464-38-5	13505	283	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
Sodium arsenite	7784-46-5	13603	534	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Rodenticide,	
0.1:				Fungicide	
Sodium azide	26628-22-8	#####	NA 897	N/A	Inorganic
Sodium bicarbonate	144-55-8	73505	1134	Fungicide, pH	Inorganic
Sodium bichromate dihydrate	7790 12 0	60006		Adjustment	
Sociali dichionate dinydrate	7789-12-0	68306	3980	Wood	Inorganic-
				Preservative	Chromium(VI),
Sodium bifluoride	1333-83-1	75201	3385	N/A	Inorganic
Sodium binoxalate	1186-49-8	9602	NA 110	Microbiocide	Inorganic
Sodium bisulfate	7681-38-1	73201	905	pH Adjustment,	Inorganic
	1	/3201	903	Fungicide,	Inorganic
†				Herbicide,	
				Microbiocide	
Sodium bisulfite	7631-90-5	78201	547	pH Adjustment,	Inorganic
				Fungicide	
Sodium borohydride	16940-66-2	NA 834	3387	N/A	Inorganic
Sodium bromate	7789-38-0	13908	NA 138	N/A	Inorganic
Sodium bromide	7647-15-6	13907	1103	Molluscicide,	Inorganic
				Herbicide,	
				Insecticide,	
Sodium carbonate	497-19-8	73506	054	Microbiocide	
Socium carbonate	497-19-8	/3506	854	pH Adjustment,	Inorganic
•				Fungicide, Microbiocide,	
				Herbicide	
Sodium chlorate	2144591	73301	536	Defoliant,	Inorganic
				Herbicide,	morgamo
				Microbiocide	
Sodium chloride	7647-14-5	13905	721	Molluscicide,	Inorganic
<u>.</u>		Í		Herbicide,	
				Insecticide,	
Sodium chlorite	7758-19-2	20502	01.40	Microbiocide	
Boardin cinorite	1130-19-2	20302	2148	Microbiocide,	Inorganic
				Water Treatment	
Sodium chromate	2144646	68303	1241	Wood	Transpir
}		00000	12-11	Preservative	Inorganic- Chromium(VI),
				210001/44/0	Heavy metal
Sodium cyanide	143-33-9	74002	688	Rodenticide	Inorganic
Sodium dichromate	10588-01-9	68304	3395	Wood	Inorganic-
				Preservative	Chromium(VI),
Sodian dia d					Heavy metal
Sodium dihydrogen phosphate	7558-80-7	76409	1022	pH Adjustment,	Inorganic
	1			Fungicide,	
		`		Herbicide,	
Sodium fluoride	7681-49-4	75202	537	Microbiocide	Total
	7.552 17.4	15202	221	Wood Preservative,	Inorganic
				Insecticide	
Sodium fluosilicate	16893-85-9	75306	538	Insecticide	Inorganic
Sodium hexametaphosphate	10124-56-8	76402	1623	pH Adjustment	Inorganic
Sodium hydrosulfite	7775-14-6	78202	3408	pH Adjustment	Inorganic
Sodium hydroxide	1310-73-2	75603		pH Adjustment,	Inorganic
	<u></u> -	<u>-</u> l.			morganic .

Chemical Name	CAS Number	U.S. EPA PC	CA Chen	u Use Type	T 01 : 1 = 1
	3.15.1,111.1001	Code	<u>Code</u>	Use Type	Chemical Class
				Fungicide,	
1			ĺ	Herbicide,	
0.1: 1.				Microbiocide	
Sodium hypobromite	NA 1442	NA 214	NA 213	Microbiocide	
Sodium hypochlorite	7681-52-9	14703	539	Microbiocide	
	1	[	ł	Water	morganic
1			]	Treatment,	
				Nematicide	
Sodium hypophosphate	13721-43-2	NA 848	3409	N/A	Inorganic
Sodium hypophosphite	7681-53-0	NA 849	3410	N/A	
Sodium iodide	7681-82-5	75702	NA 695	N/A	Inorganic
Sodium metabisulfite	7681-57-4	NA 191	NA 190	<del></del>	Inorganic
Sodium metaborate	7775-19-1	11104	689	Fungicide	Inorganic
Sodium metaborate octahydrate	NA 1045	NA 154		Insecticide	Inorganic
Sodium metaborate			4012	Insecticide	Inorganic
tetrahydrate	NA 1046	NA 154	4013	Insecticide	Inorganic
Sodium metasilicate	6924.00.0				
oodam metasticate	6834-92-0	72604	940	Insecticide,	Inorganic
				Adjuvant,	
				Fungicide,	
Sodium motorilia d	600 4 00 0			Microbiocide	
Sodium metasilicate,	6834-92-0	72604	1840	Insecticide,	Inorganic
anhydrous				Adjuvant,	
•				Fungicide,	1
0-1:111				Microbiocide	
Sodium molybdate	7631-95-0	NA 855	1761	N/A	Inorganic
Sodium nitrate	7631-99-4	76104	696	Rodenticide,	Inorganic
				Microbiocide	Morganic
Sodium nitrite	7632-00-0	76204	2862	Rodenticide,	Inorganic
				Microbiocide	morganic
Sodium oxalate	62-76-0	9604	NA 111	Microbiocide	Inorganic
Sodium pentaborate	11139-65-4	NA 862	1347	Insecticide,	Inorganic
				Plant Growth	morganic
<u> </u>				Regulator	
Sodium perborate	2092204	#####	3429	Insecticide	Inougania
Sodium perborate (NaBO3)	10486-00-7	11108	NA 115	Insecticide	Inorganic
tetrahydrate			111111111111111111111111111111111111111	msecucide	Inorganic
Sodium permanganate	10101-50-5	NA 145	3430	N/A	<del></del>
Sodium peroxide (Na2(O2))	1313-60-6	63606	NA 526		Inorganic
• ( - // )	-515 00 0	05000	NA 320	Microbiocide,	Inorganic
		j		Fungicide,	
	J	İ	1	Herbicide,	
Sodium persulfate	7775-27-1	63603	2336	Rodenticide	
Sodium phosphate	7558-79-4	76403		N/A	Inorganic
	1556-15-4	/0403	1790	pH Adjustment,	Inorganic
		ł	ļ	Fungicide,	
		1	ľ	Herbicide,	
Sodium phosphate, monobasic	7558-80-7	76400	2422	Microbiocide	
pp, monouasic	1336-60-1	76409	3433	pH Adjustment,	Inorganic
				Fungicide,	
				Herbicide,	
Sodium polysulfide	1244 00 7			Microbiocide	<del></del>
oodimii porysumde	1344-08-7	6902	541	Insecticide,	Inorganic
Sodium	12464 42 4			Fungicide	
Sodium pyroarsenate	13464-42-1	13401	2864	Wood	Inorganic-arsenic,
1		ļ		Preservative,	Heavy metal
Sodium selenate	10410 51 5			Fungicide	,
	13410-01-0	72002	NA 672	N/A	

Chemical Name	CAS Number	U.S. EPA P		T	
<u> </u>	CAB IVIIIDEI	Code	CA Cher Code	<u>Use Type</u>	Chemical Class
Sodium sesquicarbonate	533-96-0	73507	1292	pH Adjustment	Transmis
				Fungicide,	Inorganic
	İ			Microbiocide,	
				Herbicide	
Sodium silicate	1344-09-8	72603	2865	Insecticide,	Inorganic
`[				Adjuvant,	
		1	İ	Fungicide,	
Sodium silicoaluminate	NA 1005	NA 868	2000	Microbiocide	
Sodium silver thiosulfate	NA 1398	NA 197	2866 NA 196	Adjuvant	Inorganic
	1011370	NA 197	IVA 196	Herbicide	Inorganic-Silver,
Sodium sulfate	7757-82-6	5604	1532	Insecticide,	Heavy metal
			1552	Herbicide,	Inorganic
Sodium sulfide	1313-82-2	NA 214	NA 213	N/A	Inorganic
Sodium sulfite	7757-83-7	78203	1635	Fungicide	Inorganic
Sodium tetraborate (anhydrous)	1330-43-4	11112	5054	Insecticide,	Inorganic
				Herbicide,	
Sodium tetraborate	11130-12-4	771 000	ļ	Molluscicide	
(pentahydrate)	11130-12-4	NA 871	1808	Insecticide	Inorganic
Sodium tetrathiocarbonate	7345-69-9	#####	2273	<del></del>	·
	7515-05-5	ատ <del>իստ</del>	22/3	Fumigant, Fungicide,	Inorganic
				Nematicide	
Sodium thioarsenate	17367-56-5	13507	NA 128	N/A	Inorganic-arsenic,
(Na3AsO3S)		*		2,472	Heavy metal
Sodium thiocyanate	. 540-72-7	68202	848	Herbicide	Inorganic
Sodium thiosulfate	7772-98-7	80104	332	Insecticide,	Inorganic
}			İ	Fungicide,	
Sodium tripolyphosphate	7758-29-4	76404	1004	Herbicide	
Sulfur	7704-34-9	77501	1024	pH Adjustment	Inorganic
	170134-5	77501	560	Fungicide, Insecticide	Inorganic
Sulfur chloride	10025-67-9	NA 116	3461	N/A	Inorganic
Sulfur dichloride	10545-99-0	NA 915	3462	N/A	Inorganic
Sulfur dioxide	2024422	77601	561	Dessicant	Inorganic
Sulfuric acid	7664-93-9	78001	442	Herbicide,	Inorganic
				Dessicant,	
				Fungicide,	
				Microbiocide,	İ
Sulfuryl chloride	7791-25-5	78002	NA 721	pH Adjustment	
Sulfuryl fluoride	2699-79-8	78002	618	N/A	Inorganic
Talc	14807-96-6	NA 923	2911	Fumigant N/A	Inorganic
Tetracopper calcium	1336-15-8	23502	NA 187	Fungicide	Inorganic Inorganic-Copper
oxychloride				1 difficitie	morganic-Copper
Tetrapotassium pyrophosphate	7320-34-5	76408	1918	pH Adjustment,	Inorganic
				Fungicide,	8
İ				Herbicide,	
Tetrasodium pyrophosphate	7722-88-5	76405	2474	Microbiocide	
Pyrophosphate	1122-00-3	70405	3474	pH Adjustment,	Inorganic
		[		Fungicide, Herbicide,	
				Microbiocide	
Thallium(I) sulfate	7446-18-6	80001	NA 35	Rodenticide	Inorganic, Heavy
Tria.					metal
Titanium dioxide	13463-67-7	NA 954	2942	N/A	Inorganic

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I I ao Tama	
	<u>Grio riumour</u>	Code	Code	Use Type	Chemical Class
Titanium sulfate	13825-74-6	NA 111	3476	N/A	Inorganic
Tricopper dichloride	7076-63-3	#####	NA 152	Microbiocide	Dithiocarbamate,
dimethyldithiocarbamate					Inorganic-Copper
Tripotassium phosphate	7778-53-2	76407	1055	pH Adjustment	Inorganic
				Fungicide,	" Inorganio
ł				Herbicide,	
Trigo divers mb and at	7601 510		ļ	Microbiocide	
Trisodium phosphate	7601-54-9	76406	1579	pH Adjustment	Inorganic
	1			Fungicide,	
				Herbicide,	
Urea	57-13-6	85702	662	Microbiocide,	ļ <u> </u>
		03702	002	Fungicide	Inorganic
Urea dihydrogen sulfate	21351-39-3	#####	2270	Plant Growth	Inorgania
	1		22.0	Regulator,	Inorganic
				Herbicide	
Vermiculite	NA 778	NA 140	2983	N/A	Inorganic
Water	NA 557	NA 101	2987	Solvent	Inorganic
Zinc	7440-66-6	#####	2310	Herbicide	Inorganic-Zinc
Zinc 2,4,5-trichlorophenate	136-24-3	64221	NA 546	N/A	Chlorinated Phenol,
Zing 2 other barrents	126.50.0				Inorganic-Zinc
Zinc 2-ethyl hexoate Zinc 2-pyridinethiol-1-oxide	136-53-8	41203	3509	N/A	Inorganic-Zinc
Zinc 8-quinolinolate	13463-41-7	88002	2128	Microbiocide	Inorganic-Zinc
	13978-85-3	24005	NA 196	Fungicide, Microbiocide	Inorganic-Zinc
Zinc abietate	6798-76-1	NA 112	3506	N/A	Inorganic-Zinc
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
				Insecticide,	Heavy metal,
Zinc arsenite	20027.07.0			Rodenticide	Inorganic-Zinc
Zinc arseinte	28837-97-0	13604	NA 130	Herbicide,	Inorganic-Arsenic,
	}			Insecticide,	Inorganic-Zinc,
Zinc bacitracin	1405-89-6	6309	NA 87	Rodenticide Microbiocide	Heavy metal
Zinc carbonate	3486-35-9	NA 102	3507		Inorganic-Zinc
Zinc chloride	7646-85-7	87801	624	N/A Microbiocide	Inorganic-Zinc
Zinc dehydroabietylammonium	53404-92-5	4211	NA 75	Fungicide,	Inorganic-Zinc
2-ethylhexanoate			11175	Microbiocide	Inorganic-Zinc
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Soap, Inorganic-Zinc
				Adjuvant,	Soup, morganic-zinc
	1		į	Fungicide,	
Zinc fluosilicate	16071 71 0			Insecticide	
Zinc formate	16871-71-9	75307	1019	Insecticide	Inorganic-Zinc
Zinc hydroxide	557-41-5	87802	NA 838	N/A	Inorganic-Zinc
Zinc isodecanoate	20427-58-1	88501	3510	N/A	Inorganic-Zinc
Zinc isononanoate	30304-30-4 5398-80-6	41222	NA 355	N/A	Inorganic-Zinc
Zinc isooctanoate	84082-93-9	41212	NA 353	N/A	Inorganic-Zinc
Zinc mercury chromate	22323-45-1	41205	NA 351	N/A	Inorganic-Zinc
	22323-43-1	21004	NA 170	Fungicide	Inorganic-Mercury,
					Inorganic-
}		1	]		chromium(VI), Inorganic-Zinc,
				1	Heavy metal
Zinc naphthenate	12001-85-3	88301	1111	Wood	Inorganic-Zinc
1		ŀ		Preservative,	
ł			- 1	Insecticide,	}
	L		I	ungicide, Dog	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	TT- 172	
	<u>CAB Rumber</u>	Code	Code	Use Type	Chemical Class
				and Cat	
7:	-			Repellent	
Zinc neodecanoate Zinc oxide	27253-29-8	97502	NA 853	N/A	Inorganic-Zinc
	1314-13-2	88502	666	Fungicide, Adjuvant	Inorganic-Zinc
Zinc petroleum (C20- C30)sulfonate	68989-17-3	88503	NA 841	N/A	Inorganic-Zinc
Zinc phenol sulfonate	127-82-2	89002	NA 842	N/A	Inorganic-Zinc
Zinc phosphide	1314-84-7	88601	626	Rodenticide	Inorganic-Zinc
Zinc resinate	9010-69-9	77001	NA 712	N/A	Inorganic-Zinc
Zinc silicate	NA 1318	8103	NA 176	Microbiocide	Inorganic-Zinc
Zinc stearate Zinc sulfate	557-05-1	77002	3511	N/A	Inorganic-Zinc
	7733-02-0	89001	667	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, anhydrous	7733-02-0	89001	1852	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, basic	68813-94-5	89101	NA 843	N/A	Inorganic-Zinc
Zinc sulfate, monohydrate	7446-19-7	#####	2995	Herbicide	Inorganic-Zinc
Zinc trichlorophenate	30143-22-7	64213	NA 543	Microbiocide	Chlorinated Phenol, Inorganic-Zinc
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate, Inorganic-Zinc
Zineb-ethylene thiuram disulfide adduct	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate,
Ziram	137-30-4	34805	629	Fungicide,	Inorganic-Zinc Dithiocarbamate,
				Microbiocide,	Inorganic-Zinc
	İ		ĺ	Dog and Cat	
Ziram, cyclohexylamine	16500 70 0	24886		Repellent	
complex	16509-79-8	34806	1328	Dog and Cat	Dithiocarbamate,
Complex				Repellent, Fungicide	Inorganic-Zinc
(3-Ethoxypropyl)mercury	6012-84-6	#####	NA 147	Fungicide	Organomercury,
bromide			- ''	i angioido	Heavy metal
(3-Hydroxy-2-	69653-69-6	######	NA 153	N/A	Organomercury,
methoxypropyl)mercuric acetate			1		Heavy metal
10,10'-Oxybisphenoxyarsine	58-36-6	12601	1400		
10,10 Oxyoisphelloxyarsine	30-30-0	12601	1402	Fungicide, Microbiocide	Organoarsenic,
2-(acetoxymercuri)ethanol	4665-55-8	41501	NA 356	N/A	Heavy metal
3-(Hydroxymercuri)-4-nitro-o-	53404-55-0				Organomercury, Heavy metal
phenol, sodium salt		52604	NA 447	Microbiocide	Organomercury, Heavy metal
Ammonium arsenate	7784-44-3	13601	2380	Herbicide,	Inorganic-arsenic,
	İ			Insecticide,	Heavy metal
Ammonium dichromate	2149701	68305	NA 607	Rodenticide	
The second secon	2,7/01	00303	TAVE ON \	Wood Preservative	Inorganic-
				TIESELVATIVE	Chromium(VI), Heavy metal
Anilinocadmium dilactate	19651-91-3	64601	NA 548	N/A	Inorganic-Cadmium,
					Heavy metal
Arsenic	7440-38-2	NA 121	710	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenic acid	7778-39-4	6901		Rodenticide	
1 Esomo aoju	1110-37-4	6801	40	Herbicide,	Inorganic-arsenic,
		1	- 1	Insecticide, Rodenticide	Heavy metal
			Ł	rogenaciae	

	_				
Chemical Name	CAS Number	U.S. EPA PC	CA Chen	Use Type	Chemical Class
1 101		<u>Code</u>	Code		<u>Onclinical Class</u>
Arsenic disulfide	56320-22-0	6901	NA 98	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenic pentoxide	1202.00.0	-6000	ļ	Rodenticide	
Alseme penioxide	1303-28-2	6802	631	Fungicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
			ļ	Rodenticide,	,
Arsenic sulfide	12612-21-4	6901	NA 99	Herbicide	
	12012 21-4	0901	NA 99	Herbicide,	Inorganic-arsenic,
			ļ	Insecticide, Rodenticide	Heavy metal
Arsenic trioxide	1327-53-3	7001	42	Herbicide,	
				Insecticide,	Inorganic-arsenic, Heavy metal
				Rodenticide	licavy metal
Arsenic trisulfide	1303-33-9	6901	NA 97	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Amount				Rodenticide	1200 y metal
Arsenosobenzene	637-03-6	7101	NA 100	N/A	Organoarsenic,
Arsonic acid, (4-aminophenyl)-	09.50.0				Heavy metal
rusome acid, (4-ammophenyi)-	98-50-0	#####	NA 109	N/A	Organoarsenic,
Arsonic acid, ammonium salt	58829-95-1	шиний	271 125		Heavy metal
and the same of th	36629-93-1	#####	NA 105	Herbicide,	Inorganic-arsenic,
	]			Insecticide,	Heavy metal
				Wood	
Azocyclotin	41083-11-8	#####	2408	Preservative	+
			2400	Insecticide	Organotin, Heavy
Basic bismuth gallate	99-26-3	98601	NA 860	N/A	metal Heavy metal
Basic copper arsenate	16102-92-4	#####	NA 132	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
Desir Lead 111				Rodenticide	Inorganic-Copper
Basic lead silicate	53466-66-3	48003	NA 417	N/A	Inorganic-Lead,
Bis (tributyltin) adipate	7427 25 6			·	Heavy metal
Dis (albutylin) ampate	7437-35-6	83117	1990.	Antifoulant,	Organotin, Heavy
Bis (tributyltin) sulfide	4808-30-4	83113	1006	Microbiocide	metal
is as (into my rum) buriles	7000-30-4	93113	1886	Antifoulant,	Organotin, Heavy
Bis (tributyltin) sulfone	NA 970	NA 476	1665	Microbiocide	metal
	11123,0	112.470	1003	Antifoulant, Microbiocide	Organotin, Heavy
Bis(tributyltin)	12379-54-3	83101	NA 824	Antifoulant,	metal
dodecenylsuccinate			1111 024	Microbiocide	Organotin, Heavy metal
Bis(tributyltin) salicylate	22330-14-9	83102	5074	Antifoulant,	Organotin, Heavy
Di ( ii				Microbiocide	metal
Bis(tributyltin) succinate	4644-96-6	83103	74	Antifoulant,	Organotin, Heavy
Dia(tribut 1t' ) 10 11				Microbiocide	metal
Bis(tributyltin) sulfosalicylate	4419-22-1	83104	NA 825	Antifoulant,	Organotin, Heavy
Bis(tripropyltin) oxide	1007.00.4			Microbiocide	metal
Dis(tripropylitit) oxide	1067-29-4	83201	NA 829	Microbiocide,	Organotin, Heavy
Cacodylic acid	75-60-5	-		Fungicide	metal
caccayne acid	/3-60-3	12501	32	Herbicide,	Organoarsenic,
Cadmium	7440-43-9	NA 460	2420	Defoliant	Heavy metal
	7470-43-9	1VA 400	2438	N/A	Inorganic-Cadmium,
Cadmium carbonate	513-78-0	12901	93	27/4	Heavy metal
		12,01	93	N/A	Inorganic-Cadmium,
Cadmium chloride	10108-64-2	12902	94	N/A	Heavy metal
			77	TA/W	Inorganic-Cadmium,
			<del></del>		Heavy metal

Chaminal Name	CACAT	ITTO TO L DO	Ta : ==		
Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
		Code	Code		
Cadmium cocoate	72869-63-7	NA 459	3085	N/A	Inorganic-Cadmium,
Cadmium oxide	1306-19-0	#####	NA 130	N/A	Heavy metal
	1500-15-0	, , , , , , , , , , , , , , , , , , ,	NA 150	N/A	Inorganic-Cadmium,
Cadmium perborate	NA 969	NA 461	3086	N/A	Heavy metal
*		141 101	] 5000	IVA.	Inorganic-Cadmium,
Cadmium sebacate	939499	12903	699	N/A	Heavy metal
		12703	655	IVA.	Inorganic-Cadmium,
Cadmium succinate	141-00-4	12904	92	N/A	Heavy metal
		12504	72	IVA	Inorganic-Cadmium, Heavy metal
Cadmium sulfate	10124-36-4	12905	NA 123	N/A	Inorganic-Cadmium,
		12505	1121 125	14/21	Heavy metal
Cadmium yellow pigments	NA 967	NA 448	2439	N/A	Inorganic-Cadmium,
		,	2.35	14/21	Heavy metal
Calcium acid methanearsonate	5902-95-4	13806	101	Herbicide,	Organoarsenic,
		13000	101	Defoliant	Heavy metal
Calcium arsenate	7778-44-1	13501	96	Herbicide,	
		13301	70	Insecticide,	Inorganic-arsenic,
	ļ			Rodenticide,	Heavy metal
:				Molluscicide,	
Calcium arsenite	53404-59-4	13602	NA 129		
	33704-33-4	13002	NA 129	Herbicide,	Inorganic-arsenic,
		ĺ	ŀ	Insecticide,	Heavy metal
Calcium methanearsonate	6423-72-9	12000	771 406	Rodenticide	
Curciant inchancarsonate	0423-72-9	13809	NA 136	Herbicide,	Organoarsenic,
Calcium propanearsonate	126.04.2	10001		<u>Defoliant</u>	Heavy metal
Calcium propanearsonate	126-94-3	13801	NA 133	Herbicide,	Organoarsenic,
Calomel	10110 01 1			Defoliant	Heavy metal
Calomer	10112-91-1	52201	100	Fungicide	Inorganic-Mercury,
Chloromoth	1010.06				Heavy metal
Chloromethoxy propyl mercuric acetamide	1319-86-4	18401	887	N/A	Organomercury,
	771 1001				Heavy metal
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	Inorganic-
·				Herbicide,	Chromium(VI),
· ·		i	ľ	Microbiocide	Inorganic-Zinc,
- Cl					Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood	Inorganic-
				Preservative	Chromium(VI),
					Heavy metal
Chromic acid	7738-94-5	21101	1188	Wood	Inorganic-
			1	Preservative	Chromium(VI),
					Heavy metal
Chromic oxide	1308-38-9	21103	NA 173	Wood	Inorganic-
				Preservative	Chromium(VI),
			İ		Heavy metal
Copper arsenate	10103-61-4	22801	NA 178	Herbicide,	Inorganic-arsenic,
j l				Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper
Copper arsenite	10290-12-7	22401	NA 177	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
			-	Rodenticide	Inorganic-Copper
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide,	Inorganic-
				Wood	Chromium(VI),
ŀ		]	į	Preservative	Inorganic-Zinc,
		1	į	- 10001 YELLYC	Heavy metal,
		Į		i	Inorganic-Copper
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NA 171	Fungicide	Inorganic-Copper Inorganic-Cadmium,
Cu-Ca-Zn-Chromate)			/ -	z ungiciue	
		<del></del>		<del></del>	Inorganic-

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamical Ol-
		Code	Code	Osc Type	Chemical Class
·					Chromium(VI),
·					Inorganic-Zinc,
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Heavy metal
_			2.03	Preservative	Inorganic-arsenic, Heavy metal,
					Inorganic-Copper
Cyhexatin	13121-70-5	######	1638	Insecticide	Organotin, Heavy
Decafentin	15652-38-7	21 11 11 11	271 400		metal
Decarendin	13032-36-7	#####	NA 132	N/A	Organotin, Heavy
Di(phenylmercuri) ammonium	18467-88-4	66002	NA 551	N/A	metal
propionate				1771	Organomercury, Heavy metal
Di(phenylmercuric) dodecenyl	27236-65-3	66001	501	Microbiocide,	Organomercury,
succinate Dibutyltin dichloride	692.10.1	20100		Fungicide	Heavy metal
Dioutylun dichioride	683-18-1	83123	NA 828	N/A	Organotin, Heavy
Dodecyl ammonium	53404-47-0	13805	857	Herbicide,	metal
methanearsonate	55 15 17 0	15005	657	Defoliant	Organoarsenic, Heavy metal
DSMA	144-21-8	13802	251	Herbicide,	Organoarsenic,
Tru 1				Defoliant	Heavy metal
Ethylene oxide condensate of abietylamine, tributyltin	56573-85-4	NA 126	1864	Antifoulant,	Organotin, Heavy
chloride				Microbiocide	metal
Ethylmercuric phosphate	2235-25-8	41505	357	N/A	
	2230 23 0	41505	337	N/A	Organomercury, Heavy metal
Ethylmercurichlorendiimide	2597-93-5	45301	NA 383	N/A	Organomercury,
Tal. 1					Heavy metal
Ethylmercurithiosalicylic acid	148-61-8	78902	NA 724	Fungicide	Organomercury,
Ethylmercury 2,3-	2597-92-4	41507	NA 361		Heavy metal
dihydroxypropylmercaptide	2557-52-4	41307	10C AVI	Fungicide	Organomercury,
Ethylmercury acetate	109-62-6	41502	NA 357	Fungicide	Heavy metal Organomercury,
					Heavy metal
Ethylmercury bromide	107-26-6	#####	NA 149	Fungicide	Organomercury,
Ethylmercury chloride	107-27-7	41502	274 250	<del></del>	Heavy metal
Daily interest y chieffice	107-27-7	41503	NA 358	Fungicide	Organomercury,
Ethylmercury	22232-28-6	41504	NA 359	Microbiocide	Heavy metal
pentachlorophenate			142303	TATIOTODIOCIAC	Organomercury, Chlorinated Phenol,
To the state of					Heavy metal
Fatty acid* - silver complex *(100% C8)	24927-67-1	72505	NA 675	Microbiocide,	Inorganic-Silver,
(100%-08)		J		Fungicide,	Heavy metal
Fenbutatin-oxide	13356-08-6	#####	1876	Herbicide Incesticide	
	100000	"" " " " " " " " " " " " " " " " " " "	1870	Insecticide	Organotin, Heavy metal
Fentin hydroxide	76-87-9	83601	599	Fungicide,	Organotin, Heavy
·	ļ			Molluscicide,	metal
Hydroxymercuri-o-nitrophenol	20004 50 5			Herbicide	
	30284-78-7	52601	2606	Microbiocide	Organomercury,
Hydroxymercuri-o-nitrophenol,	1300-34-1	52602	NA 445	Microbiocide	Heavy metal
sodium salt		02002	11A 773	TATICIODIOCIGE	Organomercury, Heavy metal
Hydroxymercurichlorophenols	53466-93-6	46002	NA 391	Microbiocide	Organomercury,
Unders					Heavy metal
Hydroxymercuriphenyl ammonium triethanolamine	53466-95-8	46003	NA 392	Microbiocide	Organomercury,
e diministration de la constantine	——— <u>—</u>				Heavy metal

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Hydroxymercury cresol	12379-66-7	Code	Code	<del> </del>	
		46001	NA 390	Microbiocide	Inorganic-Mercury, Heavy metal, Phenols
Lactoxymercuriphenyl ammonium lactate	53466-98-1	51901	NA 429	Microbiocide	Organomercury, Heavy metal
Lauric acid, barium cadmium salt	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium, Heavy metal
Lead	7439-92-1	NA 134	2638	N/A	Inorganic-Lead,
					Heavy metal
Lead acetate	301-04-2	48001	NA 415	N/A	Inorganic-Lead, Heavy metal
Lead arsenate	7784-40-9	13503	353	Herbicide,	Inorganic-arsenic,
				Insecticide,	Inorganic-lead,
Lead arsenate, basic	1327-31-7	13502	254	Rodenticide	Heavy metal
Loud inscharc, Dasie	1327-31-7	13302	354	Herbicide, Insecticide,	Inorganic-arsenic,
				Rodenticide,	Inorganic-lead, Heavy metal
Lead metasilicate	NA 938	NA 138	1106	N/A	Inorganic-Lead,
·				- "	Heavy metal
Lead monoxide	10190-55-3	NA 123	1271	N/A	Inorganic-Lead,
T 1 1-1	61500 115				Heavy metal
Lead naphthenate	61790-14-5	48004	3296	N/A	Inorganic-Lead,
Litharge	1317-36-8	48002	NTA 416		Heavy metal
. , Didiarge	1317-30-6	48002	NA 416	N/A	Inorganic-Lead,
Magnesium arsenate	10103-50-1	13504	NA 126	Herbicide,	Heavy metal
_		1000.	1111120	Insecticide,	Inorganic-arsenic, Heavy metal
·				Rodenticide	ricavy metar
Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic-arsenic,
				Insecticide, Rodenticide	Heavy metal
Mercuric acetate	1600-27-7	52104	NA 441	N/A	Inorganic-Mercury, Heavy metal
Mercuric chloride	7487-94-7	52001	372	Fungicide	Inorganic-Mercury,
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Heavy metal Inorganic-Mercury,
dithiocarbamate		ľ			Heavy metal,
					Dithiocarbamate
Mercuric iodide	7774-29-0	52003	NA 438	N/A	Inorganic-Mercury, Heavy metal
Mercuric oleate	1191-80-6	52105	3276	N/A	Inorganic-Mercury,
Mercuric oxide	21000 52 0	- 524.05			Heavy metal
	21908-53-2	52102	955	Fungicide	Inorganic-Mercury, Heavy metal
Mercury	7439-97-6	52301	NA 26	N/A	Inorganic-Mercury, Heavy metal
Mercury naphthenate	1336-96-5	52101	NA 439	Wood	Inorganic-Mercury,
				Preservative,	Heavy metal
		]		Insecticide,	•
Mercury pentanedione	14024-55-6	52102	ATA 440	Fungicide	
politinouione	1-102-1-33-0	52103	NA 440	N/A	Inorganic-Mercury,
Mercury phenate	588-66-9	52106	NA 442	N/A	Heavy metal Inorganic-Mercury,
				4 41 A X	Heavy metal
Metallic silver	7440-22-4	72501	2125	Microbiocide,	Inorganic-Silver,
		1		Fungicide,	Heavy metal

Chemical Name	CAS Number	TIC PRA DO	CA CT		
Chermon Hame	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Methane arsonic acid (MAA)	124 59 2	Code	Code		
Memane arsome acid (MAA)	124-58-3	#####	NA 27	N/A	Organoarsenic,
Methoxyethylmercury acetate	151 00 0			<u> </u>	Heavy metal
Memoxyemylmercury acetate	151-38-2	41508	NA 362	Fungicide	Organomercury,
75 3 1 1 1 1 1 1					Heavy metal
Methylenebis(thiocyanate) with	76397-81-4	81408	NA 785	Antifoulant,	Organotin, Heavy
TBTO				Microbiocide	metal
Methylmercurichlorendimide	5902-79-4	45302	NA 384	N/A	Organomercury,
				1 1771	Heavy metal
Methylmercury 2,3-	2597-95-7	51905	NA 433	Fungicide	
dihydroxypropylmercaptide		0.2700	1111 133	rangicide	Organomercury,
Methylmercury 8-	86-85-1	51902	NA 430	Francis de	Heavy metal
hydroxyquinolinate	00 05 1	31702	112 430	Fungicide	Organomercury,
Methylmercury acetate	108-07-6	51903	NA 431		Heavy metal
l and any area and area area area area area area area are	100-07-0	31903	NA 431	Fungicide	Organomercury,
Methylmercury benzoate	3626-13-9	51004	371 10-		Heavy metal
Widely inicidally benzoate	3020-13-9	51904	NA 432	Fungicide	Organomercury,
Methylmercury dicyano	500.00.6				Heavy metal
diamide	502-39-6	51909	454	Fungicide	Organomercury,
					Heavy metal
Methylmercury hydroxide	1184-57-2	51906	NA 434	Fungicide	Organomercury,
					Heavy metal
Methylmercury nitrile	2597-97-9	51907	NA 435	Fungicide	Organomercury,
t					Heavy metal
Methylmercury propionate	1460883	51908	NA 436	Fungicide	Organomercury,
				z ungiciac	Heavy metal
· Monoammonium	2321-53-1	13808	NA 135	Herbicide,	
methanearsonate		13000	117 133	Defoliant	Organoarsenic,
Monotributyltin salicylate	4342-30-7	83122	NA 827		Heavy metal
, , , , , , , , , , , , , , , , , , , ,	13 12 30-7	03122	IVA 027	Antifoulant,	Organotin, Heavy
MSMA	2163-80-6	13803		Microbiocide	metal
	2103-80-0	13003	34	Herbicide,	Organoarsenic,
N-(Ethylmercury)-p-	517-16-8	41506		Defoliant	Heavy metal
toluenesulfonanilide	217-10-8	41506	NA 360	Fungicide	Organomercury,
N-(Phenylmercuri) urea	2070 64 0				Heavy metal
14-(Filenymiercum) urea	2279-64-3	#####	NA 160	Herbicide	Organomercury,
i. N.					Heavy metal
1 11-	5980-82-5	66009	NA 556	Fungicide	Organomercury,
(Phenylmercuri)ethylenediamin		1		Ū	Heavy metal
е					and y motal
o-(Chloromercuri)phenol	90-03-9	#####	NA 135	Microbiocide	Organomercury,
					Heavy metal
o-(Hydroxymercuri)benzoic	5722-59-8	52603	NA 446	Microbiocide	Organomercury,
acid, cyclic anhydride	į		142110	TATICI ODIOCIDE	Organomercury,
Octylammonium	6379-37-9	13804	27	Herbicide,	Heavy metal
methanearsonate	10.75,7	15004	21		Organoarsenic,
p-tert-	53433-01-5	52002	NTA 427	Defoliant	Heavy metal
Octylphenoxyethoxyethyl	22725143	32002	NA 437	Microbiocide	Inorganic-Mercury,
dimethyl benzyl ammonium	1	l			Heavy metal
mercuric chloride		ſ			
Paris green	12002.02.0		422		
r arre Ricell	12002-03-8	22601	460	Wood	Inorganic-Arsenic,
1		İ	1	Preservative	Inorganic-Copper,
Phononi					Heavy metal
Phenarsazine chloride	578-94-9	63901	1342	N/A	Organoarsenic,
				İ	Heavy metal
Phenarsazine oxide	4095-45-8	12602	NA 122	N/A	Organoarsenic,
				- "- "	Heavy metal
Phenylmercuriammonium	53404-68-5	66023	NA 567	Fungicide	
propionate				z angrence	Organomercury,
					Heavy metal

	<del></del>				
Chemical Name	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Phenylmercuric 2-	13302-00-6	66024	Code		
ethylhexanoate	15502-00-0	00024	NA 568	Fungicide,	Organomercury,
Phenylmercuric borate	6273-99-0	66005	NA 552	Microbiocide	
,,	0275-55-0	00003	NA 332	Fungicide,	Organomercury,
Phenylmercuric carbonate	53404-69-6	66006	NA 553	Microbiocide	
	33.01.03-0	00000	INA 333	Fungicide,	Organomercury,
Phenylmercuric chloride	100-56-1	66007	NA 554	Microbiocide	
	100-50-1	00007	NA 554	Fungicide,	Organomercury,
Phenylmercuric	32407-99-1	66008	NA SSS	Microbiocide	
dimethyldithiocarbamate	32407-99-1	00008	NA 555	Microbiocide,	
•			1	Fungicide	Dithiocarbamate,
Phenylmercuric formamide	22894-47-9	66010	NA 557	D :::	Heavy metal
•	220) (-4)-9	00010	NA 337	Fungicide,	Organomercury,
				Microbiocide,	Heavy metal
Phenylmercuric hydroxide	100-57-2	66011	NA 558	Herbicide	<u> </u>
•		00011	14W 229	Fungicide,	Organomercury,
<u> </u>				Microbiocide,	Heavy metal
Phenylmercuric lactate	122-64-5	66012	1535	Herbicide	<del> </del>
•		50012	1222	Microbiocide, Fungicide,	Organomercury,
<u></u>					Heavy metal
Phenylmercuric	5822-97-9	66013	NA 559	Herbicide	<del></del>
monoethanolammonium		10015	1421 333	Fungicide, Microbiocide,	Organomercury,
acetate				Herbicide	Heavy metal
Phenylmercuric	53404-70-9	66014	NA 560	Fungicide,	
monoethanolammonium lactate			1121 300	Microbiocide,	Organomercury,
				Herbicide	Heavy metal
Phenylmercuric naphthenate	31632-68-5	66015	NA 561	Wood	<del></del>
		1	141301	Preservative,	Organomercury,
				Insecticide,	Heavy metal
		ļ		Fungicide	
Phenylmercuric nitrate	55-68-5	66016	477	Microbiocide,	0
			.,,	Fungicide,	Organomercury,
·			]	Herbicide	Heavy metal
Phenylmercuric octanoate	13864-38-5	66025	NA 569	Fungicide,	0
				Microbiocide,	Organomercury,
			i	Herbicide	Heavy metal
Phenylmercuric oleate	104-60-9	66022	853	Microbiocide,	Organomena
		ļ		Fungicide,	Organomercury,
				Herbicide	Heavy metal
Phenylmercuric propionate	103-27-5	66018	NA 563	Fungicide,	Organomercury,
				Microbiocide,	Heavy metal
71				Herbicide	inday metal
Phenylmercuric salicylate	28086-13-7	66019	NA 564	Fungicide,	Organomercury,
1			- 1	Microbiocide,	Heavy metal
Dhamil				Herbicide	Trout à Inciai
Phenylmercuric thiocyanate	16751-55-6	66020	NA 565	Microbiocide,	Organomercury,
,		1		Fungicide,	Heavy metal
hanvimona				Herbicide	motai
henylmercuritriethanolammon	23319-66-6	66021	NA 566	Microbiocide,	Organomercury,
ium lactate				Fungicide,	Heavy metal
Dhomai 2				Herbicide	inclai
Phenylmercury 8-	14354-56-4	66017	NA 562	Fungicide,	Organomercury,
hydroxyquinolinolate				Microbiocide,	Heavy metal
				Herbicide	y moiai
Dh amul-san		71000			
Phenylmercury benzoate	94-43-9	51900	NA 428	Fungicide.	Organomercury
Phenylmercury benzoate	94-43-9	51900		Fungicide, Microbiocide,	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Ci
	311011111101	Code	Code	Ose Type	Chemical Class
PMA	62-38-4	66003	491	Fungicide, Microbiocide,	Organomercury, Heavy metal
		<u> </u>		Herbicide	11047 Hictar
PMA, other related	NA 1106	NA 164	90491	Fungicide,	Organomercury,
				Herbicide,	Heavy metal
				Microbiocide	
PMAA	53404-67-4	66004	492	Fungicide,	Organomercury,
Delegation of the state of the	2000			Microbiocide	Heavy metal
Poly (methylmethacrylate-co- tributyltin methacrylate)	26354-18-7	83119	5075	Antifoulant,	Organotin, Heavy
Potassium arsenite	10124-50-2	12605	NTA 101	Microbiocide	metal
1 Otassium arseinte	10124-30-2	13605	NA 131	Herbicide,	Inorganic-arsenic,
				Insecticide, Rodenticide	Heavy metal
Potassium arsenite	13464-35-2	13605	NA 132	Herbicide,	Tonama in the state of the stat
		15005	1471132	Insecticide,	Inorganic-arsenic, Heavy metal
				Rodenticide	l licavy illetai
Potassium chromate	7789-00-6	68301	700	Wood	Inorganic-
				Preservative	Chromium(VI),
					Heavy metal
Potassium hexafluoroarsenate	17029-22-0	#####	NA 160	N/A	Inorganic-arsenic,
					Heavy metal
Potassium mercuric iodide	7783-33-7	52107	NA 443	N/A	Inorganic-Mercury,
Domidal	1004 55 6	22-2-			Heavy metal
Pyridylmercuric acetate	1334-77-6	69501	NA 661	N/A	Organomercury,
Pyridylmercuric chloride	1224 75 4	60500	771 665		Heavy metal
r yridymiereuric emoride	1334-75-4	69502	NA 662	N/A	Organomercury,
Silver acetate	563-63-3	72507	NA 676	36: 1: :1	Heavy metal
Shvor accure	303-03-3	12307	NA 0/0	Microbiocide,	Inorganic-Silver,
				Fungicide, Herbicide	Heavy metal
Silver carbonate	534-16-7	72509	NA 678	Microbiocide,	Inorganic-Silver,
			11110,0	Fungicide,	Heavy metal
				Herbicide	110avy Hictar
Silver chloride	7783-90-6	72506	2324	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
6.1				Herbicide	
Silver copper zeolite	130328-19-7	#####	NA 110	Microbiocide	Inorganic-Silver,
					Heavy metal,
Silver fluoride	7775-41-9	72502	374 674	7.51	Inorganic-Copper
Silver Intoffde	///3-41-9	72502	NA 674	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Silver iodide, colloidal	7783-96-2	NA 124	1556	Herbicide Microbiocide,	Towns is Cit
,	,,03 )0 1	1/21 12-7	1330	Fungicide,	Inorganic-Silver,
				Herbicide	Heavy metal
Silver nitrate	7761-88-8	72503	2856	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
	Į	ļ	ļ	Herbicide,	, 11101011
				Plant Growth	
Cileran and the state of the st				Regulator	
Silver orthophosphate	7784-09-0	72510	NA 679	Microbiocide,	Inorganic-Silver,
(Ag3PO4)	]	1		Fungicide,	Heavy metal
Silver oxide (Ag4O4)	1301-96-8	41111111	N	Herbicide	
onvoi onide (Ag4O4)	1201-90-8	######	NA 111	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Silver oxide (Ag4O4)	155645-89-9	#####	NA 111	Herbicide Microbiocide,	Increase: 021
		annue	**** 111	Trateropiocide,	Inorganic-Silver,

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	II T	
	<u>Gris ivanisci</u>	Code	CA Chem Code	Use Type	Chemical Class
				Fungicide, Herbicide	Heavy metal
Silver sodium hydrogen zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3)	NA 1166	72560	NA 164	Microbiocide	Inorganic-Silver, Heavy metal
Silver thiocyanate	1701-93-5	68203	NA 606	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver thiuronium acrylate co- polymer	53404-00-5	72701	NA 681	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Silver zeolite	130328-18-6	#####	NA 125	Microbiocide	Inorganic-Silver, Heavy metal
Silver zinc zeolite	130328-20-0	#####	NA 111	Microbiocide	Inorganic-Silver, Inorganic-Zinc, Heavy metal
Silver, ionic	14701-21-4	NA 169	5150	Microbiocide, Fungicide, Herbicide	Inorganic-Silver, Heavy metal
Sodium arsenate	13464-38-5	13505	283	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Sodium arsenite	7784-46-5	13603	534	Herbicide, Insecticide, Rodenticide, Fungicide	Inorganic-arsenic, Heavy metal
Sodium cacodylate	124-65-2	12502	1673	Herbicide, Defoliant, Rodenticide	Organoarsenic, Heavy metal
Sodium chromate	2144646	68303	1241	Wood Preservative	Inorganic- Chromium(VI), Heavy metal
Sodium dichromate	10588-01-9	68304 `	3395	Wood Preservative	Inorganic- Chromium(VI), Heavy metal
Sodium ethylmercurithiosalicylate	54-64-8	78901	NA 723	N/A	Organomercury, Heavy metal
Sodium pyroarsenate	13464-42-1	13401	2864	Wood Preservative, Fungicide	Inorganic-arsenic, Heavy metal
Sodium silver thiosulfate	NA 1398	NA 197	NA 196	Herbicide	Inorganic-Silver, Heavy metal
Sodium thioarsenate (Na3AsO3S)	17367-56-5	13507	NA 128	N/A	Inorganic-arsenic, Heavy metal
Thallium(I) sulfate	7446-18-6	80001	NA 35	Rodenticide	Inorganic, Heavy metal
Tolylmercuric acetate	1300-78-3	#####	NA 150	Fungicide	Organomercury, Heavy metal
Tri-n-butyltin maleate	14275-57-1	83118	2185	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin acetate	56-36-0	83105	2097	Antifoulant, Microbiocide	metal Organotin, Heavy
Tributyltin acrylate	13331-52-7	83121	NA 826	Antifoulant, Microbiocide	metal Organotin, Heavy metal
Tributyltin benzoate	4342-36-3	83106	1114	Antifoulant, Microbiocide	Organotin, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	T. 77	
	CABINIMOCI	Code	<u>CA Chem</u> <u>Code</u>	Use Type	Chemical Class
Tributyltin chloride	1461-22-9	83107	1891	Antifoulant,	Organotin, Heavy
	<u></u>			Microbiocide	metal
Tributyltin chloride complex of	56573-85-4	83108	1412	Antifoulant,	Organotin, Heavy
ethylene oxide condensate of				Microbiocide	metal
abietylamine Tributyltin chloride,	NIA 1010	274 050			
myristylamine salt	NA 1012	NA 970	938	Antifoulant,	Organotin, Heavy
Tributyltin fluoride	29131	83112	1030	Microbiocide	metal
	25151	05112	1030	Antifoulant, Microbiocide,	Organotin, Heavy
				Fungicide	metal
Tributyltin isopropyl succinate	53404-82-3	83115	1115	Antifoulant,	Organotin, Heavy
				Microbiocide	metal
Tributyltin linoleate	24124-25-2	83109	1116	Antifoulant,	Organotin, Heavy
Tributyltin methacrylate	2155 70 6			Microbiocide	metal
1110utyttii illettiaciylate	2155-70-6	83120	2179	Antifoulant,	Organotin, Heavy
Tributyltin monopropylene	53466-85-6	83110	1985	Microbiocide	metal
glycol maleate	35400-05-0	85110	1963	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin neodecanoate	28801-69-6	83111	1035	Antifoulant,	metal Organotin, Heavy
				Microbiocide	metal
Tributyltin oxide	56-35-9	83001	569	Antifoulant,	Organotin, Heavy
				Microbiocide,	metal
				Molluscicide,	
Tributyltin resinate	13387-91-2	92114	1530	Fungicide	
1110 atylini Tesmate	13307-91-2	83114	1732	Antifoulant,	Organotin, Heavy
Tributyltin sulfide	4808-30-4	83113	1352	Microbiocide Antifoulant,	metal
	.000 50-4	65115	1332	Microbiocide	Organotin, Heavy
Triethanolamine cacodylate	69484-14-6	12503	NA 121	Herbicide,	metal Organoarsenic,
				Defoliant	Heavy metal
Triethanolamine	5902-97-6	13807	NA 134	Herbicide,	Organoarsenic,
methanearsonate Trimethyltin chloride	1066 45 1	21 12 22 21 44		Defoliant	Heavy metal
11mleulylui chioride	1066-45-1	#####	NA 161	N/A	Organotin, Heavy
Triphenylbismuthine	603-33-8	82801	NA 821	27/4	metal
Triphenylbismuthine dichloride	594-30-9	82802	NA 821 NA 822	N/A N/A	Heavy metal
Triphenyltin acetate	900-95-8	#####	NA 153	Fungicide,	Heavy metal
			14A 155	Herbicide	Organotin, Heavy
Triphenyltin chloride	639-58-7	#####	NA 153	N/A	metal Organotin, Heavy
					metal
Triphenyltin fluoride	379-52-2	83602	2212	Antifoulant	Organotin, Heavy
Tripropyltin methacrylate	4154-35-2	83202	NA 830	N/A	metal Organotin, Heavy
		33232	101050	17/2	metal
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
1				Insecticide,	Heavy metal,
Zina amanita	20027 25 2			Rodenticide	Inorganic-Zinc
Zinc arsenite	28837-97-0	13604	NA 130	Herbicide,	Inorganic-Arsenic,
			Ī	Insecticide,	Inorganic-Zinc,
Zinc mercury chromate	22323-45-1	21004	NA 170	Rodenticide	Heavy metal
		21007	11/0	Fungicide	Inorganic-Mercury,
					Inorganic- chromium(VI),
ľ	1			]	Inorganic-Zinc,
					Heavy metal
Ammonium arsenate	7784-44-3	13601	2380	Herbicide,	Inorganic-arsenic,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Tion There	T of the
<u>Onomear rame</u>	CAS Number	Code	Code	Use Type	Chemical Class
·				Insecticide, Rodenticide	Heavy metal
Arsenic	7440-38-2	NA 121	710	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
1				Rodenticide	
Arsenic acid	7778-39-4	6801	40	Herbicide,	Inorganic-arsenic,
·				Insecticide,	Heavy metal
Arsenic disulfide	56320-22-0	6901	374.00	Rodenticide	
ruseme distinge	30320-22-0	0901	NA 98	Herbicide, Insecticide,	Inorganic-arsenic,
				Rodenticide	Heavy metal
Arsenic pentoxide	1303-28-2	6802	631	Fungicide,	Inorganic-arsenic,
•		5552	051	Insecticide,	Heavy metal
	į			Rodenticide,	Heavy metal
				Herbicide	İ
Arsenic sulfide	12612-21-4	6901	NA 99	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
				Rodenticide	]
Arsenic trioxide	1327-53-3	7001	42	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsenic trisulfide	1202 22 0			Rodenticide	
Arsenic insuinde	1303-33-9	6901	NA 97	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Arsonic acid, ammonium salt	58829-95-1	<del>                                     </del>	NA 105	Rodenticide	
and acid, animomum sait	30023-33-1	######	I INA 105	Herbicide,	Inorganic-arsenic,
]				Insecticide, Wood	Heavy metal
	i			Preservative	
Basic copper arsenate	16102-92-4	#####	NA 132	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper
Calcium arsenate	7778-44-1	13501	96	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
:				Rodenticide,	
Coloine and it	52404 50 4	10.550		Molluscicide	
Calcium arsenite	53404-59-4	13602	NA 129	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal
Copper arsenate	10103-61-4	22801	NA 178	Rodenticide	
Copper arsenate	10103-01-4	22001	NA 178	Herbicide,	Inorganic-arsenic,
			}	Insecticide, Rodenticide	Heavy metal,
Copper arsenite	10290-12-7	22401	NA 177	Herbicide,	Inorganic-Copper Inorganic-arsenic,
	·		1	Insecticide,	Heavy metal,
				Rodenticide	Inorganic-Copper
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Inorganic-arsenic,
				Preservative	Heavy metal,
					Inorganic-Copper
Lead arsenate	7784-40-9	1:3503	353	Herbicide,	Inorganic-arsenic,
ĺ				Insecticide,	Inorganic-lead,
Lead arsenate, basic	1227 21 7	12500	251	Rodenticide	Heavy metal
Leau dischale, Dasic	1327-31-7	13502	354	Herbicide,	Inorganic-arsenic,
		ĺ		Insecticide,	Inorganic-lead,
Magnesium arsenate	10103-50-1	13504	NA 126	Rodenticide	Heavy metal
	10103-30-1	12204	11A 120	Herbicide, Insecticide,	Inorganic-arsenic,
				Rodenticide	Heavy metal
Manganese arsenate	7784-38-5	13506	NA 127	Herbicide,	Inorganic-arsenic,
					THOTEUMO-AISCING,

Chemical Name	CAS Number	U.S. EPA PC	ICA Cham	T.T 77-	
<u>OMOMBOLI I ILIIIO</u>	CAS INUMBER	Code	CA Chem Code	Use Type	Chemical Class
			Code	Insecticide, Rodenticide	Heavy metal
Paris green	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal
Potassium arsenite	10124-50-2	13605	NA 131	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Potassium arsenite	13464-35-2	13605	NA 132	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Potassium hexafluoroarsenate	17029-22-0	<del>#####</del>	NA 160	N/A	Inorganic-arsenic, Heavy metal
Sodium arsenate	13464-38-5	13505	283	Herbicide, Insecticide, Rodenticide	Inorganic-arsenic, Heavy metal
Sodium arsenite	7784-46-5	13603	534	Herbicide, Insecticide, Rodenticide, Fungicide	Inorganic-arsenic, Heavy metal
Sodium pyroarsenate	13464-42-1	13401	2864	Wood Preservative, Fungicide	Inorganic-arsenic, Heavy metal
Sodium thioarsenate (Na3AsO3S)	17367-56-5	13507	NA 128	N/A	Inorganic-arsenic, Heavy metal
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide, Insecticide, Rodenticide	Inorganic-Arsenic, Heavy metal, Inorganic-Zinc
Zinc arsenite	28837-97-0	13604	NA 130	Herbicide, Insecticide, Rodenticide	Inorganic-Arsenic, Inorganic-Zinc, Heavy metal
Antimony	7440-36-0	NA 516	2388	N/A	Antimony
Antimony potassium tartrate	28300-74-5	6201	3057	Insecticide	Antimony
Diphenylstibene 2- ethylhexanoate	5035-58-5	6202	NA 82	Microbiocide	Antimony
10,10'-Oxybisphenoxyarsine	58-36-6	12601	1402	Fungicide, Microbiocide	Organoarsenic, Heavy metal
Arsenosobenzene	637-03-6	7101	NA 100	N/A	Organoarsenic, Heavy metal
Arsonic acid, (4-aminophenyl)-	98-50-0	#####	NA 109	N/A	Organoarsenic, Heavy metal
Cacodylic acid	75-60-5	12501	32	Herbicide, Defoliant	Organoarsenic, Heavy metal
Calcium acid methanearsonate	5902-95-4	13806	101	Herbicide, Defoliant	Organoarsenic, Heavy metal
Calcium methanearsonate	6423-72-9	13809	NA 136	Herbicide, Defoliant	Organoarsenic,
Calcium propanearsonate	126-94-3	13801	NA 133	Herbicide, Defoliant	Heavy metal Organoarsenic,
Dodecyl ammonium methanearsonate	53404-47-0	13805	857	Herbicide,	Heavy metal Organoarsenic,
DSMA	144-21-8	13802	251	Defoliant Herbicide,	Heavy metal Organoarsenic,
Methane arsonic acid (MAA)	124-58-3	#####	NA 27	Defoliant N/A	Heavy metal Organoarsenic,
Monoammonium	2321-53-1	13808	NA 135	Herbicide,	Heavy metal Organoarsenic,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	320 1,100	Onciment Class
methanearsonate				Defoliant	Heavy metal
MSMA	2163-80-6	13803	34	Herbicide,	Organoarsenic,
0-4-1	6270 27 0	12004		Defoliant	Heavy metal
Octylammonium methanearsonate	6379-37-9	13804	27	Herbicide,	Organoarsenic,
Phenarsazine chloride	578-94-9	63901	1342	Defoliant N/A	Heavy metal
·	370-34-3	05901	1342	IV/A	Organoarsenic, Heavy metal
Phenarsazine oxide	4095-45-8	12602	NA 122	N/A	Organoarsenic,
				1	Heavy metal
Sodium cacodylate	124-65-2	12502	1673	Herbicide,	Organoarsenic,
·		5		Defoliant,	Heavy metal
Triethanolamine cacodylate	60404 14 6	10500	271	Rodenticide	
Triemanoiamine cacodylate	69484-14-6	12503	NA 121	Herbicide,	Organoarsenic,
Triethanolamine	5902-97-6	13807	NA 134	Defoliant	Heavy metal
methanearsonate	3902-97-0	13607	IVA 134	Herbicide, Defoliant	Organoarsenic, Heavy metal
Calomel	10112-91-1	52201	100	Fungicide	Inorganic-Mercury,
				1 ungicide	Heavy metal
Hydroxymercury cresol	12379-66-7	46001	NA 390	Microbiocide	Inorganic-Mercury,
·					Heavy metal, Phenols
Mercuric acetate	1600-27-7	52104	NA 441	N/A	Inorganic-Mercury,
Mercuric chloride	7407 04 7	50001			Heavy metal
Wiercuric chioride	7487-94-7	52001	372	Fungicide	Inorganic-Mercury,
Mercuric dimethyl	15415-64-2	34808	709	Microbiocide	Heavy metal
dithiocarbamate	] 25/15-04-2	34000	709	Micropiocide	Inorganic-Mercury, Heavy metal,
					Dithiocarbamate
Mercuric iodide	7774-29-0	52003	NA 438	N/A	Inorganic-Mercury,
					Heavy metal
Mercuric oleate	1191-80-6	52105	3276	N/A	Inorganic-Mercury,
Mercuric oxide	21908-53-2	52102	066		Heavy metal
Wiciente oxide	21906-33-2	32102	955	Fungicide	Inorganic-Mercury,
Mercury	7439-97-6	52301	NA 26	N/A	Heavy metal Inorganic-Mercury,
			120	14/11	Heavy metal
Mercury naphthenate	1336-96-5	52101	NA 439	Wood	Inorganic-Mercury,
				Preservative,	Heavy metal
				Insecticide,	
Mercury pentanedione	14024-55-6	52102	374 440	Fungicide	<u>-</u>
weremy pentanedione	14024-33-6	52103	NA 440	N/A	Inorganic-Mercury,
Mercury phenate	588-66-9	52106	NA 442	N/A	Heavy metal Inorganic-Mercury,
		52100	1111112	17/24	Heavy metal
p-tert-	53433-01-5	52002	NA 437	Microbiocide	Inorganic-Mercury,
Octylphenoxyethoxyethyl					Heavy metal
dimethyl benzyl ammonium					•
mercuric chloride Potassium mercuric iodide	7792 22 7	50100	774 115		
i otassium mercuric lodide	7783-33-7	52107	NA 443	N/A	Inorganic-Mercury,
Zinc mercury chromate	22323-45-1	21004	NA 170	Eungieide	Heavy metal
	22323-43-1	21004	7447 1 \0	Fungicide	Inorganic-Mercury, Inorganic-
		İ			chromium(VI),
		ŀ			Inorganic-Zinc,
(2.54					Heavy metal
(3-Ethoxypropyl)mercury bromide	6012-84-6	#####	NA 147	Fungicide	Organomercury,
Oronnuce			<u> </u>		Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
(3-Hydroxy-2-	69653-69-6	#####	NA 153	N/A	Organomercury,
methoxypropyl)mercuric					Heavy metal
acetate					
2-(acetoxymercuri)ethanol	4665-55-8	41501	NA 356	N/A	Organomercury,
3-(Hydroxymercuri)-4-nitro-o-	53404-55-0	52604	NTA 440	36	Heavy metal
phenol, sodium salt	33404-33-0	52604	NA 447	Microbiocide	Organomercury,
Chloromethoxy propyl	1319-86-4	18401	887	N/A	Heavy metal
mercuric acetamide	1010 00 .	10.01	007	IVA.	Organomercury, Heavy metal
Di(phenylmercuri) ammonium	18467-88-4	66002	NA 551	N/A	Organomercury,
propionate					Heavy metal
Di(phenylmercuric) dodecenyl	27236-65-3	66001	501	Microbiocide,	Organomercury,
succinate	2025 05 0			Fungicide	Heavy metal
Ethylmercuric phosphate	2235-25-8	41505	357	N/A	Organomercury,
Ethylmercurichlorendiimide	2597-93-5	45301	NA 383	N/A	Heavy metal
	2357-53-5	45501	1VA 303	IV/A	Organomercury, Heavy metal
Ethylmercurithiosalicylic acid	148-61-8	78902	NA 724	Fungicide	Organomercury,
·				3-3-3	Heavy metal
Ethylmercury 2,3-	2597-92-4	41507	NA 361	Fungicide	Organomercury,
dihydroxypropylmercaptide	100.60.6				Heavy metal
Ethylmercury acetate	109-62-6	41502	NA 357	Fungicide	Organomercury,
Ethylmercury bromide	107-26-6	#####	NA 149	F	Heavy metal
Daily interest y brothinge	107-20-0	<del>"""""</del>	NA 149	Fungicide	Organomercury, Heavy metal
Ethylmercury chloride	107-27-7	41503	NA 358	Fungicide	Organomercury,
			1111550	1 ungloide	Heavy metal
Ethylmercury	22232-28-6	41504	NA 359	Microbiocide	
	22252-20-0	1 71304	114W 27A	Micropiocide	Organomercury,
pentachlorophenate	2222-20-0	71304	IVA 339	Microbiocide	Organomercury, Chlorinated Phenol,
pentachlorophenate	:				Chlorinated Phenol, Heavy metal
	30284-78-7	52601	2606	Microbiocide	Chlorinated Phenol, Heavy metal Organomercury,
pentachlorophenate  Hydroxymercuri-o-nitrophenol	30284-78-7	52601	2606	Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal
pentachlorophenate	:				Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury,
pentachlorophenate  Hydroxymercuri-o-nitrophenol  Hydroxymercuri-o-nitrophenol,	30284-78-7	52601	2606	Microbiocide  Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal
pentachlorophenate  Hydroxymercuri-o-nitrophenol  Hydroxymercuri-o-nitrophenol,  sodium salt  Hydroxymercurichlorophenols	30284-78-7 1300-34-1 53466-93-6	52601 52602 46002	2606 NA 445	Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols Hydroxymercuriphenyl	30284-78-7 1300-34-1	52601 52602	2606 NA 445	Microbiocide  Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Organomercury,
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine	30284-78-7 1300-34-1 53466-93-6 53466-95-8	52601 52602 46002 46003	2606 NA 445 NA 391 NA 392	Microbiocide  Microbiocide  Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl	30284-78-7 1300-34-1 53466-93-6	52601 52602 46002	2606 NA 445 NA 391	Microbiocide  Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1	52601 52602 46002 46003 51901	2606 NA 445 NA 391 NA 392 NA 429	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6	52601 52602 46002 46003 51901 NA 212	2606 NA 445 NA 391 NA 392 NA 429 NA 211	Microbiocide  Microbiocide  Microbiocide  Microbiocide  Microbiocide  Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1	52601 52602 46002 46003 51901 NA 212 NA 208	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Fungicide Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Organomercury
Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5	52601 52602 46002 46003 51901 NA 212	2606 NA 445 NA 391 NA 392 NA 429 NA 211	Microbiocide  Microbiocide  Microbiocide  Microbiocide  Microbiocide  Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Organomercury Organomercury Organomercury
pentachlorophenate  Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5	52601 52602 46002 46003 51901 NA 212 NA 208	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Fungicide Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Organomercury
Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate  Methylmercurichlorendimide	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5 151-38-2 5902-79-4	52601 52602 46002 46003 51901 NA 212 NA 208 41508	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208  NA 362  NA 384	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Fungicide Fungicide Fungicide Fungicide Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury Organomercury Organomercury Organomercury Organomercury Heavy metal Organomercury Organomercury Heavy metal Organomercury
Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate  Methylmercurichlorendimide  Methylmercury 2,3-	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5 151-38-2	52601 52602 46002 46003 51901 NA 212 NA 208 41508	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208  NA 362	Microbiocide  Microbiocide  Microbiocide  Microbiocide  Microbiocide  Fungicide  Fungicide  Fungicide  Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury Organomercury Organomercury Organomercury Organomercury Heavy metal Organomercury Organomercury Organomercury Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,
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Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate  Methylmercury acetate  Methylmercury 2,3- dihydroxypropylmercaptide Methylmercury 8- hydroxyquinolinate Methylmercury acetate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5 151-38-2 5902-79-4 2597-95-7	52601 52602 46002 46003 51901 NA 212 NA 208 41508 45302 51905	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208  NA 362  NA 384  NA 433	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Fungicide Fungicide Fungicide Fungicide Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury Organomercury Organomercury Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,
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Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate  Methylmercury 2,3- dihydroxypropylmercaptide Methylmercury 8- hydroxyquinolinate Methylmercury acetate  Methylmercury acetate  Methylmercury acetate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5 151-38-2 5902-79-4 2597-95-7 86-85-1 108-07-6 3626-13-9	52601 52602 46002 46003 51901 NA 212 NA 208 41508 45302 51905 51902 51903 51904	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208  NA 362  NA 384  NA 433  NA 430  NA 431  NA 432	Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Microbiocide Fungicide Fungicide Fungicide Fungicide Fungicide Fungicide Fungicide Fungicide Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury Organomercury Organomercury Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,
Hydroxymercuri-o-nitrophenol Hydroxymercuri-o-nitrophenol, sodium salt Hydroxymercurichlorophenols  Hydroxymercurichlorophenols  Hydroxymercuriphenyl ammonium triethanolamine Lactoxymercuriphenyl ammonium lactate Methoxyethyl mercury chloride Methoxyethyl mercury silicate Methoxyethylmercury acetate  Methylmercury acetate  Methylmercury 2,3- dihydroxypropylmercaptide Methylmercury 8- hydroxyquinolinate Methylmercury acetate	30284-78-7 1300-34-1 53466-93-6 53466-95-8 53466-98-1 123-88-6 64491-92-5 151-38-2 5902-79-4 2597-95-7 86-85-1 108-07-6	52601 52602 46002 46003 51901 NA 212 NA 208 41508 45302 51905 51902 51903	2606  NA 445  NA 391  NA 392  NA 429  NA 211  NA 208  NA 362  NA 384  NA 433  NA 430  NA 431	Microbiocide  Microbiocide  Microbiocide  Microbiocide  Microbiocide  Fungicide  Fungicide  Fungicide  Fungicide  Fungicide  Fungicide  Fungicide  Fungicide  Fungicide	Chlorinated Phenol, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury Organomercury Organomercury Organomercury Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury, Heavy metal Organomercury,

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	TT- (7)	T
<u>Onomicul I valid</u>	CAS Number	Code	<u>CA Chem</u> <u>Code</u>	Use Type	Chemical Class
Methylmercury hydroxide	1184-57-2	51906	NA 434	Fungicide	Organomercury, Heavy metal
Methylmercury nitrile	2597-97-9	51907	NA 435	Fungicide	Organomercury, Heavy metal
Methylmercury propionate	1460883	51908	NA 436	Fungicide	Organomercury, Heavy metal
N-(Ethylmercury)-p- toluenesulfonanilide	517-16-8	41506	NA 360	Fungicide	Organomercury, Heavy metal
N-(Phenylmercuri) urea	2279-64-3	<del>111111111</del>	NA 160	Herbicide	Organomercury, Heavy metal
N- (Phenylmercuri)ethylenediamin e	5980-82-5	66009	NA 556	Fungicide	Organomercury, Heavy metal
o-(Chloromercuri)phenol	90-03-9	#####	NA 135	Microbiocide	Organomercury, Heavy metal
o-(Hydroxymercuri)benzoic acid, cyclic anhydride	5722-59-8	52603	NA 446	Microbiocide	Organomercury, Heavy metal
Phenylmercuriammonium propionate	53404-68-5	66023	NA 567	Fungicide	Organomercury, Heavy metal
Phenylmercuric 2- ethylhexanoate	13302-00-6	66024	NA 568	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric borate	6273-99-0	66005	NA 552	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric carbonate	53404-69-6	66006	NA 553	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric chloride	100-56-1	66007	NA 554	Fungicide, Microbiocide	Organomercury, Heavy metal
Phenylmercuric dimethyldithiocarbamate	32407-99-1	66008	NA 555	Microbiocide, Fungicide	Organomercury, Dithiocarbamate, Heavy metal
Phenylmercuric formamide	22894-47-9	66010	NA 557	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric hydroxide	100-57-2	66011	NA 558	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric lactate	122-64-5	66012	1535	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium acetate	5822-97-9	66013	NA 559	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric monoethanolammonium lactate	53404-70-9	66014	NA 560	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric naphthenate	31632-68-5	66015	NA 561	Wood Preservative, Insecticide, Fungicide	Organomercury, Heavy metal
Phenylmercuric nitrate	55-68-5	66016	477	Microbiocide, Fungicide, Herbicide	Organomercury, Heavy metal
Phenylmercuric octanoate	13864-38-5	66025	NA 569	Fungicide, Microbiocide, Herbicide	Organomercury, Heavy metal
Phenylmercuric oleate	104-60-9	66022	853	Microbiocide, Fungicide,	Organomercury, Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	TICA CI	77	
<u>Chemical Ivanic</u>	<u>CAS Number</u>	Code	CA Chem Code	Use Type	Chemical Class
				Herbicide	
Phenylmercuric propionate	103-27-5	66018	NA 563	Fungicide,	Organomercury,
			1	Microbiocide,	Heavy metal
Dhamilana	20006 10:5			Herbicide	
Phenylmercuric salicylate	28086-13-7	66019	NA 564	Fungicide,	Organomercury,
				Microbiocide,	Heavy metal
Phenylmercuric thiocyanate	16751-55-6	66020	NA 565	Herbicide Microbiocide,	<del> </del>
	10,01 00 0	00020	NA 303	Fungicide,	Organomercury,
				Herbicide	Heavy metal
Phenylmercuritriethanolammon	23319-66-6	66021	NA 566	Microbiocide,	Organomercury,
ium·lactate				Fungicide,	Heavy metal
Phenylmercury 8-	14354-56-4	66015		Herbicide	
hydroxyquinolinolate	14334-30-4	66017	NA 562	Fungicide,	Organomercury,
				Microbiocide, Herbicide	Heavy metal
Phenylmercury benzoate	94-43-9	51900	NA 428	Fungicide,	Organomercury,
			1.22 1.20	Microbiocide.	Heavy metal
				Herbicide	110avy metal
Phenylmercury nitrate	2227736	NA 209	NA 208	Fungicide	Organomercury
PMA	62-38-4	66003	491	Fungicide,	Organomercury,
			1	Microbiocide,	Heavy metal
PMA, other related	NA 1106	NA 164	90491	Herbicide Fungicide,	
•		141104	00491	Herbicide,	Organomercury, Heavy metal
			[ ]	Microbiocide	i ileavy metai
PMAA	53404-67-4	66004	492	Fungicide,	Organomercury,
Pyridylmercuric acetate	1224 77 6	60.50		Microbiocide	Heavy metal
1 yridymiercune acetate	1334-77-6	69501	NA 661	N/A	Organomercury,
Pyridylmercuric chloride	1334-75-4	69502	NA 662	N/A	Heavy metal Organomercury,
				- 112	Heavy metal
Sodium ethylmercurithiosalicylate	54-64-8	78901	NA 723	N/A	Organomercury,
Tolylmercuric acetate	1300-78-3	20000			Heavy metal
Torymore are take	1300-78-3	######	NA 150	Fungicide	Organomercury,
Anilinocadmium dilactate	19651-91-3	64601	NA 548	N/A	Heavy metal
			11223-10	IVA	Inorganic-Cadmium, Heavy metal
Cadmium	7440-43-9	NA 460	2438	N/A	Inorganic-Cadmium,
0-1					Heavy metal
Cadmium carbonate	513-78-0	12901	93	N/A	Inorganic-Cadmium,
Cadmium chloride	10108-64-2	12902	- 04		Heavy metal
	10100-04-2	12902	94	N/A	Inorganic-Cadmium,
Cadmium cocoate	72869-63-7	NA 459	3085	N/A	Heavy metal Inorganic-Cadmium,
				1021	Heavy metal
Cadmium oxide	1306-19-0	#####	NA 130	N/A	Inorganic-Cadmium,
Cadmium perborate	- 371.050				Heavy metal
Cadmum percorate	NA 969	NA 461	3086	N/A	Inorganic-Cadmium,
Cadmium sebacate	939499	12903	600	27/4	Heavy metal
	)3)4))	12903	699	N/A	Inorganic-Cadmium,
Cadmium succinate	141-00-4	12904	92	N/A	Heavy metal Inorganic-Cadmium,
				- " - 1	Heavy metal
Cadmium sulfate	10124-36-4	12905	NA 123	N/A	Inorganic-Cadmium,
					Heavy metal

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chamin 1 O'
	<u>CARS AVUINOUS</u>	Code	Code	. Ose Type	Chemical Class
Cadmium yellow pigments	NA 967	NA 448	2439	N/A	Inorganic-Cadmium, Heavy metal
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NA 171	Fungicide	Inorganic-Cadmium,
Cu-Ca-Zn-Chromate)			1421 1/1	rangicide	Inorganic-
					Chromium(VI),
	:				Inorganic-Zinc,
					Heavy metal
Lauric acid, barium cadmium	15337-60-7	NA 118	3676	Adjuvant	Inorganic-Cadmium,
salt			55,0	2 Idjavani	Heavy metal
Ammonium dichromate	2149701	68305	NA 607	Wood	Inorganic-
				Preservative	Chromium(VI),
				1100011011	Heavy metal
Chromated zinc chloride	NA 1026	87801	1187	Insecticide,	Inorganic-
				Herbicide,	Chromium(VI),
				Microbiocide	Inorganic-Zinc,
				•	Heavy metal
Chromic acetate	1066-30-4	21102	NA 172	Wood	Inorganic-
				Preservative	Chromium(VI),
					Heavy metal
Chromic acid	7738-94-5	21101	1188	Wood	Inorganic-
				Preservative	Chromium(VI),
	•				Heavy metal
Chromic oxide	1308-38-9	21103	NA 173	Wood	Inorganic-
				Preservative	Chromium(VI),
					Heavy metal
Copper-zinc chromate complex	1344-74-7	21003	163	Fungicide,	Inorganic-
				Wood	Chromium(VI),
				Preservative	Inorganic-Zinc,
ļ		,	İ		Heavy metal,
					Inorganic-Copper
Crag turf fungicide 531 (Cd-	12001-20-6	21006	NA 171	Fungicide	Inorganic-Cadmium,
. Cu-Ca-Zn-Chromate)			ļ	_	Inorganic-
			ŀ		Chromium(VI),
1			{		Inorganic-Zinc,
					Heavy metal
Potassium chromate	7789-00-6	68301	700	Wood	Inorganic-
1		Ì		Preservative	Chromium(VI),
Detection 11.1					Heavy metal
Potassium dichromate	7778-50-9	68302	2167	Wood	Inorganic-
Coding higher water dilector	7700 10 0			Preservative	Chromium(VI)
Sodium bichromate dihydrate	7789-12-0	68306	3980	Wood	Inorganic-
		1		Preservative	Chromium(VI),
Sodium chromate	0144646	- (0000			Inorganic
Socium chromate	2144646	68303	1241	Wood	Inorganic-
			1	Preservative	Chromium(VI),
Sodium dichromate	10500 01 0	50204			Heavy metal
Sodium dichromate	10588-01-9	68304	3395	Wood	Inorganic-
	1			Preservative	Chromium(VI),
Zinc maraum ab	2222 45 1	01004	37, 222		Heavy metal
Zinc mercury chromate	22323-45-1	21004	NA 170	Fungicide	Inorganic-Mercury,
1			ŀ		Inorganic-
	ľ	1	-		chromium(VI),
	ļ	l		}	Inorganic-Zinc,
Acetic acid, copper (2+) salt	142 71 2	NIA COT	2012		Heavy metal
Basic copper arsenate	142-71-2	NA 697	3013	N/A	Inorganic-Copper
Dasic copper arsenate	16102-92-4	######	NA 132	Herbicide,	Inorganic-arsenic,
				Insecticide,	Heavy metal,

Chemical Name	CAS Number	U.S. EPA PC	ICA CL	1	
<u>Sastaour Traino</u>	CAS Number	Code	CA Chem Code	<u>Use Type</u>	Chemical Class
			Code	Rodenticide	<del> </del>
Bordeaux mixture	NA 240	NA 478	80	Fungicide	Inorganic-Copper
Chlorophyllin	11006-34-1	NA 191	NA 190	Fungicide,	Inorganic-Copper
•				Microbiocide	Inorganic-Copper, Botanical
Copper	7440-50-8	22501	714	Fungicide	Inorganic-Copper
Copper (from triethanolamine	82027-59-6	24403	NA 198	Algaecide	Inorganic-Copper
complex)					
Copper 2-ethylhexanoate Copper 3-phenylsalicylate	22221-10-9	41201	2235	Fungicide	Inorganic-Copper
Copper 8-quinolinoleate	1250682	23801	NA 191	N/A	Inorganic-Copper
copper 8-quinoimoleate	10380-28-6	24002	159	Fungicide,	Inorganic-Copper
Copper abietate	10248-55-2	23301	NA 104	Microbiocide	<u> </u>
Copper acetate	831632	44002	NA 184	Fungicide	Inorganic-Copper
Copper ammonium acetate	NA 1544	NA 225	147 NA 225	Fungicide	Inorganic-Copper
Copper ammonium carbonate	33113-08-5	22703	1762	Fungicide Fungicide	Inorganic-Copper
Copper ammonium complex	16828-95-8	22702	3550	Fungicide	Inorganic-Copper
Copper arsenate	10103-61-4	22801	NA 178	Herbicide,	Inorganic-Copper
			1421 176	Insecticide,	Inorganic-arsenic, Heavy metal,
				Rodenticide	Inorganic-Copper
Copper arsenite	10290-12-7	22401	NA 177	Herbicide,	Inorganic-arsenic,
			1	Insecticide,	Heavy metal,
		•		Rodenticide	Inorganic-Copper
Copper as elemental from copper - etidronic acid complex	50376-91-5	24404	NA 199	N/A	Inorganic-Copper
Copper beta cyclodextrin hydroxide	NA 1366	NA 193	NA 193	Fungicide	Inorganic-Copper
Copper bronze powder	7440-50-8	22501	1457	Antifoulant	Inorganic-Copper
Copper carbonate, basic	1184-64-1	22901	60	Fungicide,	Inorganic-Copper  Inorganic-Copper
				Algaecide,	morgame-copper
				Insecticide	
Copper chloride (anhydrous)	1344-67-8	23802	NA 192	N/A	Inorganic-Copper
Copper chloride (dihydrate) Copper citrate	10125-13-0	23701	NA 190	N/A	Inorganic-Copper
Copper citrate chelate	10402-15-0	44005	1406	N/A	Inorganic-Copper
Copper complex with ammonia	NA 961	NA 387	3547	N/A	Inorganic-Copper
and ethylene diamine tetraacetate	67989-88-2	#####	NA 130	Fungicide	Inorganic-Copper
Copper cresylate	12379-42-9	23001	NA 181	Fungicide	
Copper	53404-24-3	41202	NA 349	N/A	Inorganic-Copper
dehydroabietylammonium 2- ethylhexanoate				IVA	Inorganic-Copper
Copper dihydrazinium sulfate	33271-65-7	50504	753	N/A	Inorganic-Copper
Copper ethanolamine complex	14215-52-2	24409	NA 201	Algaecide	Inorganic-Copper
Copper ethanolamine complexes, mixed	NA 1044	NA 146	3551	Algaecide	Inorganic-Copper
Copper ethylenediamine complex	13426-91-0	24407	3549	Herbicide	Inorganic-Copper
Copper gluconate chelate	814-91-5	23305	2549	27/4	
Copper hydrazinium sulfate	53433-02-6	50501	3548 NA 418	N/A	Inorganic-Copper
Copper hydroxide	20427-59-2	23401	151	Fungicide	Inorganic-Copper
	20.27.35.2	25401	131	Fungicide, Microbiocide, Nematicide	Inorganic-Copper
Copper hydroxide - triethanolamine complex	NA 1017	NA 105	1826	N/A	Inorganic-Copper
Copper isodecanoate	84082-88-2	41221	NA 354	N/A	Inorganic-Copper
	<u></u>	<u></u> -L			morganic-Copper

Chemical Name	CACNI	ITI G TD L DG	10.		
Chemical Ivaine	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Copper isononanoate	72915-82-3	<u>Code</u> 41211	Code		
Copper isooctanoate	88859-94-3	41211	NA 352	N/A	Inorganic-Copper
Copper lactate	16039-52-4	23302	NA 350	N/A	Inorganic-Copper
Copper linoleate	7721-15-5	23302	NA 185	N/A	Inorganic-Copper
Copper metaborate	39290-85-2	23303	1110	N/A	Inorganic-Copper
Copper monoethanolamine	NA 960		NA 179	N/A	Inorganic-Copper
complex		NA 384	3552	N/A	Inorganic-Copper
. Copper naphthenate	1338-02-9	23102	153	Wood	Inorganic-Copper
				Preservative,	Same copper
			•	Insecticide,	
				Fungicide, Dog	
				and Cat	
Copper naphthenate	1338-02-9	6000	NA 172	Repellent	·
	1300 02 9	0000	IVA 172	Wood Preservative,	Inorganic-Copper
	[			Insecticide,	
	i l			Fungicide, Dog	
	1			and Cat	
:				Repellent	
Copper naphthenate	1338-02-9	6300	NA 172	Wood	Inorganic-Copper
		ļ		Preservative,	S Cippe.
				Insecticide,	
				Fungicide, Dog	
į			i	and Cat	
Copper nitroacetate	22221-12-1	23201	NA 183	Repellent	
Copper octanoate	20543-04-8	23306	5225	N/A	Inorganic-Copper
Copper oleate	10402-16-1	23304	154	Fungicide	Inorganic-Copper
Copper oxide (ic)	1317-38-0	42401	2231	Fungicide	Inorganic-Copper
				Fungicide, Insecticide	Inorganic-Copper
Copper oxide (ous)	1317-39-1	25601	175	Fungicide,	Inorganic-Copper
Copper oxychloride	1332-40-7	8001	155	Insecticide	
Copper oxychloride	1332-65-6	8001	156	Fungicide	Inorganic-Copper
(Cu2Cl(OH)3)		23501	NA 186	Fungicide	Inorganic-Copper
Copper oxychloride sulfate	8012-69-9	23503	158	Fungicide	Inorganic-Copper
Copper oxysulfate	12158-97-3	23504	NA 188	N/A	Inorganic-Copper
Copper oxysulfate	82010-79-5	23504	NA 189	N/A	Inorganic-Copper
Copper pentachlorophenate	15773-35-0	63011	NA 512	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Copper
		ļ		Microbiocide,	
				Algaecide, Fungicide	
Copper phosphate	10103-48-7	22902	NA 180	N/A	Inorganic-Copper
Copper phthalocyanine	147-14-8	NA 381	2479	Dye	Inorganic-Copper
Copper pyrophosphate	10102-90-6		NA 663	N/A	Inorganic-Copper
Copper salts of fatty and rosin	9007-39-0	23104	155	Fungicide	Inorganic-Copper
acids					moreume-cobbet
Copper salts of the acids of tall oil	61789-22-8	23103	NA 182	N/A	Inorganic-Copper
Copper silicate	1344-72-5	24301	NA 197	N/A	Inorganic-Copper
Copper sodium sulfate-	NA 1023	NA 121	755	N/A	Inorganic-Copper
phosphate complex				- "- "	morgamo-cobbet
Copper sulfate (anhydrous)	7758-98-7	24408	1778	Fungicide,	Inorganic-Copper
İ			1	Algaecide,	S == coppor
				Molluscicide	

Chemical Name	CAS Number	U.S. EPA PO	CA Chem	I Ioo T	
		Code	Code	Use Type	Chemical Class
Copper sulfate (basic)	1344-73-6	8101	162	Fungicide,	Inorgania Carre
			102	Algaecide,	Inorganic-Copper
				Molluscicide	
Copper sulfate (pentahydrate)	7758-99-8	24401	161	Algaecide,	Inorganic-Copper
				Fungicide,	morganic-copper
			1	Insecticide,	
			}	Water	
			ļ	Treatment,	
			İ	Molluscicide,	
Copper sulfate ethylene	NA 1036	NIA 122	0400	Nematicide	
diamine	1VA 1030	NA 132	2480	N/A	Inorganic-Copper
Copper sulfate, monohydrate	10257-54-2	24402	1789	Towns 1.1	
, , , , , , , , , , , , , , , , , , , ,	10257-54-2	24402	1/09	Fungicide,	Inorganic-Copper
<u> </u>			i .	Algaecide, Molluscicide	
. Copper sulfate, tri-basic	NA 1384	NA 195	NA 194	Herbicide,	Images and C
			141127	Algaecide,	Inorganic-Copper
			ļ	Fungicide,	
				Water	
				Treatment	
Copper triethanolamine	68027-59-6	NA 125	1615	Algaecide	Inorganic-Copper
complex . Copper-zinc chromate complex	1244.54.5				g-me copper
Copper-zinc ciromate complex	1344-74-7	21003	163	Fungicide,	Inorganic-
				Wood	Chromium(VI),
:	Į			Preservative	Inorganic-Zinc,
•					Heavy metal,
Copper-zinc sulfate complex	55072-57-6	8102	164	Francis 14	Inorganic-Copper
		0102	104	Fungicide	Inorganic-Zinc,
Copper-zinc sulfate complex,	NA 959	NA 382	1751	Fungicide	Inorganic-Copper
monohydrate			-7,51	i diigicide	Inorganic-Zinc, Inorganic-Copper
Cuprammonium	NA 1382	NA 195	NA 194	Fungicide	Inorganic-Copper
Cupric acetoarsenite	12002-03-8	22601	2485	Wood	Inorganic-arsenic,
·			Į	Preservative	Heavy metal,
Comple Service 1 18					Inorganic-Copper
Cupric ferric subsulfate complex	12168-20-6	42402	NA 365	Molluscicide	Inorganic-Copper
Cupric fluosilicate	10060.04.5				
Cupric fluosificate  Cupric gluconate	12062-24-7	75309	NA 692	Insecticide	Inorganic-Copper
Cupric nitrate	527-09-3	24405	3117	Fungicide	Inorganic-Copper
Cuprous and cupric oxide,	3251-23-8	76102	3118	N/A	Inorganic-Copper
mixed	82010-82-0	42403	NA 366	N/A	Inorganic-Copper
Cuprous chloride (Cu2Cl2)	7758-89-6	#####	5507		
Cuprous iodide	7681-65-4	#####	5597	Fungicide	Inorganic-Copper
Cuprous sulfide	22205-45-4	#####	NA 902	N/A	Inorganic-Copper
Cuprous thiocyanate	1111-67-7	25602	NA 124	N/A	Inorganic-Copper
Device (swimming pool	NA 1504	NA 222		Microbiocide	Inorganic-Copper
algaecide, copper generating)	1121 1504	NA 222	NA 222	Algaecide	Inorganic-Copper
no guarantee required					
Dihydrogen	54453-03-1	24406	NA 200	N/A	Transacio C
{ethylenediaminetetraacetato(4			111200	IVA	Inorganic-Copper
-)}cuprate(2-)		1		l	ľ
Disodium EDTA-copper	14025-15-1	NA 296	3173	N/A	Inorganic-Copper
EDTA diammonium copper	7379-26-2	39117	1613	Algaecide	Inorganic-Copper
salt				3	
EDTA, copper complex	12276-01-6	39105	1135	Algaecide	Inorganic-Copper

CT . 132					
Chemical Name	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Lignin sulfonic acid, copper salt	NA 933	NA 126	<u>Code</u> 1925	N/A	Inorganic-Copper
Malachite (copper equivalent 57%)	1319-53-5	#####	NA 155	N/A	Inorganic-Copper
Mixed copper chelates or complex blend of copper salts	NA 1437	NA 213	NA 212	Fungicide	Inorganic-Copper
N-(2-hydroxyethyl) ethylene diamine triacetic acid, copper salt	NA 1025	NA 122	1130	N/A	Inorganic-Copper
Neodecanoic acid, copper salt	50315-14-5	97503	NA 854	N/A	Inorganic-Copper
Paris green  Silver copper zeolite	12002-03-8	22601	460	Wood Preservative	Inorganic-Arsenic, Inorganic-Copper, Heavy metal
	130328-19-7	<del>              </del>	NA 110	Microbiocide	Inorganic-Silver, Heavy metal,
Tetracopper calcium . oxychloride	1336-15-8	23502	NA 187	Fungicide	Inorganic-Copper Inorganic-Copper
Tricopper dichloride dimethyldithiocarbamate	7076-63-3	#####	NA 152	Microbiocide	Dithiocarbamate, Inorganic-Copper
Azocyclotin	41083-11-8	#####	2408	Insecticide	Organotin, Heavy
Bis (tributyltin) adipate	7437-35-6	83117	1990	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis (tributyltin) sulfide	4808-30-4	83113	1886	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis (tributyltin) sulfone	NA 970	NA 476	1665	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tributyltin) dodecenylsuccinate	12379-54-3	83101	NA 824	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tributyltin) salicylate	22330-14-9	83102	5074	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tributyltin) succinate	4644-96-6	83103	74	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tributyltin) sulfosalicylate	4419-22-1	83104	NA 825	Antifoulant, Microbiocide	Organotin, Heavy metal
Bis(tripropyltin) oxide	1067-29-4	83201	NA 829	Microbiocide, Fungicide	Organotin, Heavy metal
Cyhexatin	13121-70-5	#####	1638	Insecticide	Organotin, Heavy metal
Decafentin	15652-38-7	#####	NA 132	N/A	Organotin, Heavy metal
Dibutyltin dichloride	683-18-1	83123	NA 828	N/A	Organotin, Heavy metal
Ethylene oxide condensate of abietylamine, tributyltin chloride	56573-85-4	NA 126	1864	Antifoulant, Microbiocide	Organotin, Heavy metal
Fenbutatin-oxide	13356-08-6	#####	1876	Insecticide	Organotin, Heavy
Fentin hydroxide	76-87-9	83601	599	Fungicide, Molluscicide, Herbicide	metal Organotin, Heavy metal
Methylenebis(thiocyanate) with TBTO	76397-81-4	81408	NA 785	Antifoulant, Microbiocide	Organotin, Heavy metal
Monotributyltin salicylate	4342-30-7	83122	NA 827	Antifoulant, Microbiocide	Organotin, Heavy metal

Chemical Name	CAS Number	U.S. EPA PO	704.01	T ===	
	CAB Ivamber	Code	CA Chem Code	Use Type	Chemical Class
Poly (methylmethacrylate-co- tributyltin methacrylate)	26354-18-7	83119	5075	Antifoulant,	Organotin, Heavy
Tin Acrylate Polymers RC 626	NA 1444	774 214	374.010	Microbiocide	metal
& RC 627		NA 214	NA 213	Antifoulant	Organotin
Tri-n-butyltin maleate	14275-57-1	83118	2185	Antifoulant,	Organotin, Heavy
Tributyltin acetate	56.26.0			Microbiocide	metal
1 Houryim acetate	56-36-0	83105	2097	Antifoulant,	Organotin, Heavy
Tributyltin acrylate	13331-52-7	92101	371.00	Microbiocide	metal
	13331-32-7	83121	NA 826	Antifoulant,	Organotin, Heavy
Tributyltin benzoate:	4342-36-3	83106	1114	Microbiocide	
	10.2005	05100	1114	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin chloride	1461-22-9	83107	1891	Antifoulant,	metal
		55.20,	1051	Microbiocide	Organotin, Heavy
Tributyltin chloride complex of	56573-85-4	83108	1412	Antifoulant,	metal Organotin, Heavy
ethylene oxide condensate of abietylamine				Microbiocide	metal
Tributyltin chloride,	NA 1012	NA 970	938	Antifoulant,	Organotin, Heavy
myristylamine salt				Microbiocide	metal
Tributyltin fluoride	29131	83112	1030	Antifoulant,	Organotin, Heavy
				Microbiocide,	metal
Tributyltin isopropyl succinate	52404.00.0			Fungicide	
· · · · · · · · · · · · · · · · · · ·	53404-82-3	83115	1115	Antifoulant,	Organotin, Heavy
Tributyltin linoleate	24124-25-2	02100		Microbiocide	metal
inologie	24124-25-2	83109	1116	Antifoulant,	Organotin, Heavy
Tributyltin methacrylate	2155-70-6	83120	0170	Microbiocide	metal
,	2133-70-0	03120	2179	Antifoulant,	Organotin, Heavy
Tributyltin monopropylene	53466-85-6	83110	1985	Microbiocide	metal
glycol maleate		05110	1965	Antifoulant, Microbiocide	Organotin, Heavy
Tributyltin naphthenate	85409-17-2	NA 211	NA 210	Fungicide	metal
Tributyltin neodecanoate	28801-69-6	83111	1035	Antifoulant,	Organotin
				Microbiocide	Organotin, Heavy metal
Tributyltin oxide	56-35-9	83001	569	Antifoulant,	Organotin, Heavy
· .				Microbiocide,	metal
		ļ	ļ	Molluscicide,	
Tributyltin resinate	12207.01.0			Fungicide	
Trioutyithi Tesmate	13387-91-2	83114	1732	Antifoulant,	Organotin, Heavy
Tributyltin sulfide	4808-30-4	02112		Microbiocide	metal
- and any and a second	4000-30-4	83113	1352	Antifoulant,	Organotin, Heavy
Trimethyltin chloride	1066-45-1	#####	NA 161	Microbiocide	metal
	1000 45-1	********	IVA 101	N/A	Organotin, Heavy
Triphenyltin acetate	900-95-8	#####	NA 153	Fungicide,	metal Organistic II
				Herbicide	Organotin, Heavy
Triphenyltin chloride	639-58-7	######	NA 153	N/A	metal Organotin, Heavy
Triphenyltin fluoride	379-52-2	83602	2212	Antifoulant	metal
				TIMETHORISTIC	Organotin, Heavy
Tripropyltin methacrylate	4154-35-2	83202	NA 830	N/A	Organotin Harry
				-11/23	Organotin, Heavy metal
Basic lead silicate	53466-66-3	48003	NA 417	N/A	Inorganic-Lead,
Tool					Heavy metal
Lead	7439-92-1	NA 134	2638	N/A	Inorganic-Lead,
Lead acetate	201.04.0				Heavy metal
Dead actiate	301-04-2	48001	NA 415	N/A	Inorganic-Lead,

Chemical Name	CAS Number	U.S. EPA PC	CA Chen	TT- m	
	CAD INITIDEI	Code	<u>CA Chen</u> <u>Code</u>	Use Type	Chemical Class
			Couc		Honry
Lead arsenate	7784-40-9	13503	353	Herbicide,	Heavy metal Inorganic-arsenic,
1				Insecticide,	Inorganic-lead,
				Rodenticide	Heavy metal
Lead arsenate, basic	1327-31-7	13502	354	Herbicide,	Inorganic-arsenic,
		1	}	Insecticide,	Inorganic-lead,
				Rodenticide	Heavy metal
Lead metasilicate	NA 938	NA 138	1106	N/A	Inorganic-Lead,
T 1	10100				Heavy metal
Lead monoxide	10190-55-3	NA 123	1271	N/A	Inorganic-Lead,
Lead naphthenate	61790-14-5	40004			Heavy metal
Lead naphthenate	01/90-14-5	48004	3296	N/A	Inorganic-Lead,
Litharge	1317-36-8	48002	374 416	37/1	Heavy metal
	1517-30-6	48002	NA 416	N/A	Inorganic-Lead,
Alkyl*-1-(2-aminoethyl)-2-	NA 1188	46606	NA 167	26:1: :1	Heavy metal
imidazoline acetate - nickel	1121 1100	40000	NA 107	Microbiocide	Inorganic-Nickel,
sulfate complex			1		Imidazoline
Maneb and nickel sulfate	8005-46-7	#///////	NA 158	Fungicide	Dishipport
hexahydrate (014505 +			1111130	Tungicide	Dithiocarbamate, Inorganic-Nickel
050505)					morganic-Nickei
Nickel	7440-02-0	NA 121	762	N/A	Inorganic-Nickel
Nickel diethyl hexyl acid	NA 928	NA 53	3696	N/A	Inorganic-Nickel
phosphate complex					morgame-141cker
Nickel sulfate (anhydrous)	7786-81-4	50508	NA 420	Fungicide	Inorganic-Nickel
Nickel sulfate hexahydrate	10101-97-0	50505	NA 419	Fungicide	Inorganic-Nickel
Fatty acid* - silver complex	24927-67-1	72505	NA 675	Microbiocide,	Inorganic-Silver,
*(100% C8)				Fungicide,	Heavy metal
Metallic silver				Herbicide	
Metanic silver	7440-22-4	72501	2125	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Silver acetate	563-63-3	72507	NA 676	Herbicide	
	303-03-3	72307	NA 0/0	Microbiocide,	Inorganic-Silver,
				Fungicide, Herbicide	Heavy metal
Silver carbonate	534-16-7	72509	NA 678	Microbiocide,	Tmompa-i- Cil
		00	1121 070	Fungicide,	Inorganic-Silver, Heavy metal
				Herbicide	i i cavy metai
Silver chloride	7783-90-6	72506	2324	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
0.1				Herbicide	,
Silver copper zeolite	130328-19-7	#####	NA 110	Microbiocide	Inorganic-Silver,
					Heavy metal,
Silver fluoride	7775 41 0				Inorganic-Copper
Silver Huoride	7775-41-9	72502	NA 674	Microbiocide,	Inorganic-Silver,
		1		Fungicide,	Heavy metal
Silver iodide, colloidal	7783-96-2	NA 124	1556	Herbicide	
	7765-50-2	NA 124	1556	Microbiocide,	Inorganic-Silver,
				Fungicide,	Heavy metal
Silver nitrate	7761-88-8	72503	2856	Herbicide Microbiocide,	Inorganii C''
		. 2505	2000	Fungicide,	Inorganic-Silver,
				Herbicide,	Heavy metal
	İ	J		Plant Growth	
				Regulator	
Silver orthophosphate	7784-09-0	72510	NA 679	Microbiocide,	Inorganic-Silver,
· · · · · · · · · · · · · · · · · · ·					

Code   Code	Chemical Name	CAS Number	ITE EDA DO	104.01		
Silver oxide (Ag4O4)   1301-96-8   ##### NA 111   Microbiocide, Fungicide, Herbicide   Inorganic-Silver, Heavy metal   Microbiocide, Fungicide, Herbicide   Herb	Chelinear Name	CAS Number	U.S. EPA PC Code		Use Type	Chemical Class
Silver oxide (Ag4O4)  Silver oxide (Ag4O4)  Silver oxide (Ag4O4)  Silver oxide (Ag4O4)  Silver sodium hydrogen zirconium phosphate (Ag0.18 Na0.57H0.25z2z(PO4)  Silver thiuronium acrylate copolymer  Silver zeolite  Silver zeolite  Silver zinc zinc zinc zinc zeolite  Silver zinc zeolite  Silver zinc zinc	(Ag3PO4)			2000		Heavy metal
Silver sodium hydrogen zirconium phosphate (Ag.0.18Na.0.7H0.25Zr2(PO4) 3)  Silver thiocyanate 1701-93-5 68203 NA 606 Microbiocide, Fungicide, Herbicide (Herbicide Her		1301-96-8	#####		Microbiocide, Fungicide,	
zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3) Silver thiocyanate 1701-93-5 68203 NA 606 Microbiocide, Fungicide, Herbicide Fungicide, Herbicide Fungicide, Herbicide Fungicide, Herbicide Fungicide, Herbicide Fungicide, Herbicide Fungicide, Herbicide Silver zeolite 130328-18-6 ##### NA 111 Microbiocide Silver zinc zeolite 130328-20-0 ##### NA 111 Microbiocide Silver, ionic  14701-21-4 NA 169 Silver, ionic  14701-21-4 NA 169 Silver, ionic  14701-21-4 NA 169 Sodium silver thiosulfate NA 1398 NA 197 NA 196 Herbicide Sodium silver thiosulfate 2-Mercaptobenzothiazole, zinc salt Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  165-04-4 Silver, ionic  1701-21-4 NA 169 NA 197 NA 196 Herbicide Inorganic-Silver, Heavy metal Inorganic-Silver, Heavy metal Mercaptobenzothiazole, zinc salt Silver thiosulfate NA 1398 NA 197 NA 196 Herbicide Inorganic-Silver, Heavy metal Mercaptobenzothiazole, zinc salt Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  155-04-4 Silver, ionic  160-7-10-10-10-10-10-10-10-10-10-10-10-10-10-					Microbiocide, Fungicide,	
Silver thiuronium acrylate copolymer  Silver thiuronium acrylate copolymer  Silver zeolite  Silver zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver zinc zeolite  Silver, ionic  14701-21-4  NA 169  SIVON Microbiocide  Silver, ionic  Ionoganic-Silver, Inorganic-Silver, Heavy metal  Heavy metal  Heavy metal  Heavy metal  Inorganic-Silver, Ionic  Inorganic-Silver, Heavy metal  Inorganic-Silver, Heavy metal  Microbiocide, Fungicide, Microbiocide, Microbiocide, Ionic io	zirconium phosphate (Ag0.18Na0.57H0.25Zr2(PO4) 3)		72560	NA 164	Microbiocide	Inorganic-Silver, Heavy metal
Silver zeolite   130328-18-6   ##### NA 125   Microbiocide   Inorganic-Silver, Heavy metal   Heavy		1701-93-5	68203	NA 606	Fungicide,	Inorganic-Silver, Heavy metal
Silver zinc zeolite 130328-20-0 ##### NA 111 Microbiocide Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc, Heavy metal Inorganic-Zinc Inorganic-Zinc Microbiocide Herbicide Inorganic-Zinc Microbiocide Microbiocide Fungicide, Microbiocide Inorganic-Zinc In	polymer				Fungicide, Herbicide	Heavy metal
Silver zunc zeolite    130328-20-0			#####	NA 125	Microbiocide	
Sodium silver thiosulfate  NA 1398  NA 197  NA 196  Herbicide, Fungicide, Fun		130328-20-0	#####	NA 111	Microbiocide	Inorganic-Silver, Inorganic-Zinc,
2-Mercaptobenzothiazole, zinc salt  5-Chloro-2- mercaptobenzothiazole, zinc salt  Boric acid(H4B6O11), zinc salt(1:2)  Calcium-zinc LN 193 (complex)  Chromated zinc chloride  Copper-zinc chromate complex  Copper-zinc sulfate complex, monohydrate  Corg turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  2-Mercaptobenzothiazol, zinc salt(1:2)  53404-93-6  51709  NA 427  Microbiocide, Fungicide, Microbiocide, Fungicide she propriodice, Fungicide she propriodice, Fungicide she propriodice, Inorganic-Zinc sulfate complex, monohydrate  12447-61-9  #####  5094  Fungicide  1870  NA 120  3871  N/A  Inorganic-Zinc  Inorganic-Zinc  Chromium(VI), Inorganic-Zinc, Inorganic-Chromium(VI), Inorganic-Zinc, Inorganic-Copper  Inorga				5150	Fungicide,	Inorganic-Silver,
Salt   Salt	Sodium silver thiosulfate	NA 1398	NA 197	NA 196	Herbicide	
S-Chloro-2- mercaptobenzothiazole, zinc salt  Boric acid(H4B6O11), zinc salt(1:2)  Calcium-zinc LN 193 (complex)  Chromated zinc chloride  Copper-zinc chromate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Copper-zinc sulfate complex  Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  Salt04-93-6  51709  NA 427  NA 427  Microbiocide, Fungicide  NA 1020  Sa71  N/A  Inorganic-Zinc  Hinorganic-Zinc  Heavy metal Inorganic-Copper  Inorganic-Copper  Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Zinc, Inorganic-Copper  I		155-04-4	51705	1449		Mercaptobenzothiazo
Calcium-zinc LN 193	mercaptobenzothiazole, zinc	53404-93-6	51709	NA 427	Microbiocide,	Mercaptobenzothiazo
Chromated zinc chloride  NA 1026  R7801  1187  Insecticide, Herbicide, Microbiocide  Herbicide, Microbiocide  Chromium(VI), Inorganic-Zinc, Heavy metal  Inorganic-Zinc, Heavy metal  Inorganic-Zinc, Heavy metal, Inorganic-Zinc, Heavy metal, Inorganic-Zinc, Inorganic-Cadmium, Inorganic-Cadmium, Inorganic-Cadmium, Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal  RDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  NA 1026  RBDTA disedime size with 14005 21.0  RBDTA disedime size	salt(1:2)	12447-61-9	#####	5094	Fungicide	Inorganic-Zinc
Copper-zinc chromate complex 1344-74-7 21003 163 Fungicide, Wood Preservative Inorganic-Zinc, Heavy metal, Inorganic-Zinc, Heavy metal, Inorganic-Copper Inorga	(complex)	NA 653	NA 120	3871.	N/A	Inorganic-Zinc
Copper-zinc chromate complex    1344-74-7			87801	1187	Herbicide,	Chromium(VI), Inorganic-Zinc,
Copper-zinc sulfate complex 55072-57-6 8102 164 Fungicide Inorganic-Zinc, Inorganic-Copper Copper-zinc sulfate complex, monohydrate NA 959 NA 382 1751 Fungicide Inorganic-Zinc, Inorganic-Copper Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate) 21006 NA 171 Fungicide Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal	Copper-zinc chromate complex	1344-74-7	21003	163	Wood	Inorganic- Chromium(VI), Inorganic-Zinc, Heavy metal,
Crag turf fungicide 531 (Cd-Cu-Ca-Zn-Chromate)  NA 959  NA 382  1751  Fungicide  Inorganic-Zinc, Inorganic-Copper  Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc, Heavy metal	Copper-zinc sulfate complex	55072-57-6	8102	164	Fungicide	Inorganic-Zinc,
Cu-Ca-Zn-Chromate)  12001-20-6  21006  NA 171  Fungicide  Inorganic-Cadmium,  Inorganic-Chromium(VI),  Inorganic-Zinc,  Heavy metal	monohydrate	NA 959	NA 382	1751	Fungicide	Inorganic-Zinc,
	Cu-Ca-Zn-Chromate)	12001-20-6	21006	NA 171	Fungicide	Inorganic-Cadmium, Inorganic-Chromium(VI), Inorganic-Zinc,
	EDTA, disodium zinc salt	14025-21-9	NA 274	3189	N/A	Inorganic-Zinc
Lignin sulfonic acid, zinc salt NA 1014 NA 102 1768 N/A Inorganic-Zinc	Lignin sulfonic acid, zinc salt	NA 1014	NA 102			

Chemical Name	CAS Number	ITTO EDA DO	I G L Gi		
Chemical Ivanie	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
Lignin sulfonic acid, zinc, manganese & iron salts	NA 1030	NA 126	1771	N/A	Inorganic-Zinc
Mancozeb	2233100	14504	211	Fungicide	Dithiocarbamate, Inorganic-Zinc
Metiram	9006-42-2	14601	493	Fungicide	Dithiocarbamate,
o-Phenylphenol, alkyl* amine - zinc salt of *(100% C18)	82010-74-0	64107	NA 533	Microbiocide	Inorganic-Zinc Phenols, Inorganic- Zinc
Pentachlorophenol, zinc salt	2917-32-0	63008	NA 510	Wood	Chlorinated Phenol,
				Preservative,	Inorganic-Zinc
				Microbiocide, Algaecide,	İ
				Fungicide	
Polyoxin D zinc salt	146659-78-1	#####	NA 129	Fungicide	Inorganic-Zinc
Propineb	12071-83-9	#####	NA 155	Fungicide,	Dithiocarbamate,
				Microbiocide	Inorganic-Zinc
Silver zinc zeolite .	130328-20-0	<del>                 </del>	NA 111	Microbiocide	Inorganic-Silver,
					Inorganic-Zinc,
Zinc	7440.66.6				Heavy metal
Zinc 2,4,5-trichlorophenate	7440-66-6	#####	2310	Herbicide	Inorganic-Zinc
Zinc 2,4,5-triemorophenate	136-24-3	64221	NA 546	N/A	Chlorinated Phenol,
Zinc 2-ethyl hexoate	136-53-8	41203	2500	27/4	Inorganic-Zinc
Zinc 2-pyridinethiol-1-oxide	13463-41-7	88002	3509 2128	N/A	Inorganic-Zinc
Zinc 8-quinolinolate	13978-85-3	24005	NA 196	Microbiocide	Inorganic-Zinc
	15570-05-5	24003	NA 190	Fungicide, Microbiocide	Inorganic-Zinc
Zinc abietate	6798-76-1	NA 112	3506	N/A	Inorganic-Zinc
Zinc arsenate	13464-44-3	13301	NA 125	Herbicide,	Inorganic-Arsenic,
				Insecticide,	Heavy metal,
5				Rodenticide	Inorganic-Zinc
Zinc arsenite	28837-97-0	13604	NA 130	Herbicide,	Inorganic-Arsenic,
	j			Insecticide,	Inorganic-Zinc,
Zinc bacitracin	1405-89-6	(200	371.05	Rodenticide	Heavy metal
Zinc carbonate	3486-35-9	6309 NA 102	NA 87	Microbiocide	Inorganic-Zinc
Zinc chloride	7646-85-7		3507	N/A	Inorganic-Zinc
Zinc dehydroabietylammonium	53404-92-5	87801 4211	624	Microbiocide	Inorganic-Zinc
2-ethylhexanoate	33404-92-3	4211	NA 75	Fungicide, Microbiocide	Inorganic-Zinc
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Coom Turanesis 77'
			3300	Adjuvant,	Soap, Inorganic-Zinc
	:	ļ	ľ	Fungicide,	<u> </u>
				Insecticide	
Zinc fluosilicate	16871-71-9	75307	1019	Insecticide	Inorganic-Zinc
Zinc formate	557-41-5	87802	NA 838	N/A	Inorganic-Zinc
Zinc hydroxide	20427-58-1	88501	3510	N/A	Inorganic-Zinc
Zinc isodecanoate	30304-30-4	41222	NA 355	N/A	Inorganic-Zinc
Zinc isononanoate	5398-80-6	41212	NA 353	N/A	Inorganic-Zinc
Zinc isooctanoate	84082-93-9	41205	NA 351	N/A	Inorganic-Zinc
Zinc mercury chromate	22323-45-1	21004	NA 170	Fungicide	Inorganic-Mercury, Inorganic-
	ļ		1	ŀ	chromium(VI),
	İ	1			Inorganic-Zinc,
Zinc naphthenate	12001 95 3	99201			Heavy metal
Zine napitutenate	12001-85-3	88301	1111	Wood	Inorganic-Zinc
		ŧ		Preservative,	
		<del>L</del>		Insecticide,	

Chemical Name	CAS Number	U.S. EPA PC		Use Type	Chemical Class
	 	Code	<u>Code</u>		
				Fungicide, Dog	
				and Cat	
	05050 00 0	07500	371 050	Repellent	<del></del>
Zinc neodecanoate	27253-29-8	97502	NA 853	N/A	Inorganic-Zinc
Zinc oxide	1314-13-2	88502	666	Fungicide, Adjuvant	Inorganic-Zinc
Zinc petroleum (C20- C30)sulfonate	68989-17-3	88503	NA 841	N/A	Inorganic-Zinc
Zinc phenol sulfonate	127-82-2	89002	NA 842	N/A	Inorganic-Zinc
Zinc phosphide	1314-84-7	88601	626	Rodenticide	Inorganic-Zinc
Zinc resinate	9010-69-9	77001	NA 712	N/A	Inorganic-Zinc
Zinc silicate	NA 1318	8103	NA 176	Microbiocide	Inorganic-Zinc
Zinc stearate	557-05-1	77002	3511	N/A	Inorganic-Zinc
Zinc sulfate	7733-02-0	89001	667	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, anhydrous	7733-02-0	89001	1852	Microbiocide, Herbicide	Inorganic-Zinc
Zinc sulfate, basic	68813-94-5	89101	NA 843	N/A	Inorganic-Zinc
Zinc sulfate, monohydrate	7446-19-7	#####	2995	Herbicide	Inorganic-Zinc
Zinc trichlorophenate	30143-22-7	64213	NA 543	Microbiocide	Chlorinated Phenol,
					Inorganic-Zinc
Zineb	12122-67-7	14506	627	Fungicide	Dithiocarbamate,
					Inorganic-Zinc
Zineb-ethylene thiuram	NA 1465	NA 217	NA 216	Fungicide	Dithiocarbamate,
disulfide adduct					Inorganic-Zinc
· Ziram	137-30-4	34805	629	Fungicide,	Dithiocarbamate,
				Microbiocide,	Inorganic-Zinc
			ŀ	Dog and Cat	
Ziram, cyclohexylamine	16509-79-8	34806	1328	Repellent Dog and Cat	Dithiocarbamate,
complex	10309-79-8	34000	1328	Repellent,	Inorganic-Zinc
Complex				Fungicide	morganic-znic
1-butoxy ethoxy-2-propanol	124-16-3	NA 113	3074	N/A	Alcohol/Ether
1-butoxy-2-propanol	5131-86-8	NA 467	3075	. Solvent	Alcohol/Ether
1-decanol	112-30-1	79038	1791	Plant Growth	Alcohol/Ether
		',,,,,,	1	Regulator	7 MOONOD Banci
1-Heptadecanol	1454-85-9	#####	NA 150	N/A	Alcohol/Ether
. 1-heptanol	111-70-6	NA 205	3222	N/A	Alcohol/Ether
1-hexanol	111-27-3	79047	3229	N/A	Alcohol/Ether
1-Octanol	111-87-5	79037	NA 733	Plant Growth	Alcohol/Ether
	1	1		Regulator,	
				Herbicide	
2,6,8-trimethyl-4-nonanol	123-17-1	NA 144	3303	Adjuvant	Alcohol/Ether
2-(2-Butoxyethoxy)ethanol	112-34-5	11502	NA 117	Solvent	Alcohol/Ether,
					Glycol Ether
2-butoxyethanol	111-76-2	11501	89	Fungicide,	Alcohol/Ether
				Microbiocide,	
	110.00.5	) NY 101		Solvent	
2-ethoxyethanol	110-80-5	NA 104	2554	Fungicide, Microbiocide	Alcohol/Ether
2-Ethyl-1-butanol	97-95-0	#####	NA 148	N/A	Alcohol/Ether
2-ethyl-1-hexanol	10-47-6	NA 251	2560	N/A	Alcohol/Ether
2-Ethyl-1-hexanol	104-76-7	79098	NA 767	Solvent	Alcohol/Ether
2-Phenylcyclohexanol	1444-64-0	65002	NA 550	N/A	Alcohol/Ether
2-Phenylethanol	60-12-8	1503	NA 62	N/A	Alcohol/Ether

Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohol/Ether   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether   Alcohols   Alcohol/Ether	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
3-phenoxybenzyl alcohol   13826-35-2   NA 651   2771   N/A   Alcohol/Ether   4-Methyl-2-pentanol   1308-11-2   #####   NA 157   N/A   Alcohol/Ether   Alcohols, C4-C12, normal   NA 392   NA 713   2067   Solvent, Alcohol/Ether   Alcohols, C4-C12   68603-15-6   79029   5072   Microbiocide, Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Alkylaryl polyether alcohol   NA 594   NA 716   1536   Adjuvant   Alcohol/Ether   Alkylaryl polyether alcohol   NA 557   NA 121   878   Adjuvant   Alcohol/Ether   Alkylaryl polyether alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Alcohol/Ether   Allyl alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Enzyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether   Cycl alcohol   36653-82-4   1508   2449   N/A   Alcohol/Ether   Cyclobutanethanol, 1-methyl-   2-(1-methyl-ethenyl), cis-   Cyclobutanethanol, 1-methyl-   2-(1-methyl-ethenyl), cis-   Cyclobutanethanol, 1-methyl-   30820-22-5   #####   NA 922   N/A   Alcohol/Ether   Dimethyl ether   115-10-6   NA 132   2517   Solvent   Alcohol/Ether   Ethyl alcohol   4-17-5   1501   8   Microbicoide,   Alcohol/Ether   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbicoide,   Alcohol/Ether   Alcohol/E		<del></del>			<u> </u>	CHOINION CRASS
Alcohols, C4-C12, normal   NA 392   NA 713   2067   Solvent,   Alcohol/Ether	3,3,5-trimethyl cyclohexanol	116-02-9	NA 982	3493	N/A	Alcohol/Ether
Alcohols, C4-C12, normal   NA 392   NA 713   2067   Solvent,   Alcohol/Ether   Microbiocide   Alcohol/Ether   Microbiocide,   Alcohol/Ether   Solvent   Alcohol/Ether   Alcohols, C8-10   85566-12-7   79059   5073   Microbiocide,   Alcohol/Ether   Solvent   Alcohol/Ether   Alkanols (ave. C6), mixed   NA 394   NA 716   1536   Adjuvant   Alcohol/Ether   Alkylaryl polyether alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Allyl alcohol   107-18-6   68401   3023   Herbicide   Alcohol/Ether   Alcohol/Ether   Allyl alcohol   100-51-6   9502   915   Insecticide,   Alcohol/Ether   Cetyl alcohol   36653-82-4   1508   2449   N/A   Alcohol/Ether   Cetyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether   Cyclobutaneethanol, 1-methyl-   24(-methylethenyl), cis-   Cyclobexanol   108-93-0   25904   3121   Solvent   Alcohol/Ether   Cyclobutaneethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbiocide,   Alcohol/Ether   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbiocide,   Alcohol/Ether					N/A	Alcohol/Ether
Alcohols, C6-12			#####	NA 157	N/A	Alcohol/Ether
Alcohols, C8-10			NA 713	2067		Alcohol/Ether
Alkanols (ave. C6), mixed						Alcohol/Ether
Alkylaryl polyether alcohol				5073		Alcohol/Ether
Allyl alcohol						Alcohol/Ether
Benzyl alcohol			<del></del>			Alcohol/Ether
Butyl alcohol   78-92-2   1502   1482   Solvent   Alcohol/Ether   Cetyl alcohol   36633-82-4   1508   2449   N/A   Alcohol/Ether   Cinnamyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether   Cyclobutaneethanol, 1-methyl-				_		Alcohol/Ether
Cetyl alcohol   36653-82-4   1508   2449   N/A   Alcohol/Ether   Cinnamyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether   Cyclobutanethanol, 1-methyl-2-(1-methylethemyl)-, cis-   Cyclobexanol   30820-22-5   #####   NA 922   N/A   Alcohol/Ether   Alcohol/Ether   Cyclobexanol   108-93-0   25904   3121   Solvent   Alcohol/Ether   Denatured ethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether   Dimethyl ether   115-10-6   NA 132   2517   Solvent   Alcohol/Ether   Ethyl alcohol   64-17-5   1501   8   Microbiocide, Solvent   Alcohol/Ether   Solvent   Alcohol/Ether   Adjuvant, Adjuvant, Adjuvant, Adjuvant, Alcohol/Ether   Ethylene oxide   75-21-8   42301   277   Furnigant   Alcohol/Ether   Fatty alcohols (100% C4-C10)   NA 126   NA 241   3654   Adjuvant   Alcohol/Ether   Fatty alcohols (55.10% C10, NA 1265   79089   NA 173   Plant Growth   Regulator, Adjuvant   Alcohol/Ether   C14, 8% C16, 10%   C12   C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C12, C14, 8% C16, 10%   C14, 8% C16, 10%   C14, 8% C16, 10%   C15, C14, 8% C16, 10%   C16, C16, C16, C16, C16, C16, C16, C16,	·		9502	915		Alcohol/Ether
Cinnamyl alcohol   104-54-1   40512   NA 343   Insecticide   Alcohol/Ether				1482	Solvent	Alcohol/Ether
Cyclobutaneethanol, 1-methyl-2-(1-methylethenyl)-, cis-					N/A	Alcohol/Ether
Cyclohexanol   108-93-0   25904   3121   Solvent   Alcohol/Ether			40512	NA 343	Insecticide	Alcohol/Ether
Denatured ethanol   NA 1033   NA 129   2102   Solvent   Alcohol/Ether		30820-22-5	#####	NA 922	N/A	Alcohol/Ether
Dimethyl ether	Cyclohexanol	108-93-0	25904	3121	Solvent	Alcohol/Ether
Dimethyl ether	Denatured ethanol	NA 1033	NA 129	2102		
Ethyl alcohol   64-17-5   1501   8   Microbiocide, Solvent, Adjuvant, Adjuvant, Adjuvant, Molluscicide   T5-21-8   42301   277   Furnigant   Alcohol/Ether   Fatty alcohols (100% C4-C10)   NA 126   NA 241   3654   Adjuvant   Alcohol/Ether   Fatty alcohols (55.10% C10, NA 1265   79089   NA 173   Plant Growth   Regulator, Adjuvant   C12)   Plant Growth   Regulator, Adjuvant   Alcohol/Ether   Regulator, Adjuvant   Alcohol/Ether   C14, 8% C16, 1% C10)   Hydrocinnamyl alcohol   122-97-4   40511   NA 342   N/A   Alcohol/Ether   i-Nonyl alcohol   3452-97-9   #####   NA 153   N/A   Alcohol/Ether   Isobutyl alcohol   78-83-1   1507   2622   Solvent   Alcohol/Ether   Isopropyl alcohol   67-63-0   47501   342   Microbiocide, Alcohol/Ether   Isopropyl alcohol   67-63-0   47501   342   Microbiocide, Alcohol/Ether   Isostearyl alcohol   27458-93-1   NA 156   2627   Adjuvant   Alcohol/Ether   Lauryl alcohol   112-53-8   1509   2343   Pheromone, Pheromone, Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Adjuvant   Alcohol/Ether   Myristyl alcohol   112-72-1   1510   2344   Pheromone, Alcohol/Ether   Fragrance   Alcohol/Ether   Fragrance   n-Butyl alcohol   71-36-3   NA 468   3077   Solvent   Alcohol/Ether   Regulator   n-Propoxy propanol   30136-13-1   NA 798   2837   Solvent   Alcohol/Ether   n-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   Alcohol/Ether   n-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether   N-Propyl alcohol   71-23	Dimethyl ether	115-10-6	NA 132	2517	Solvent	
Ethylene oxide	Ethyl alcohol	64-17-5	1501	8	Solvent, Adjuvant,	
Fatty alcohols (100% C4-C10)	Ethylene oxide	75-21-8	42301	277		Alcohol/Ether
Fatty alcohols (55.10% C10, 42.88% C8, 1.01% C6, 1.01% C12)	Fatty alcohols (100% C4-C10)	NA 126				
Fatty alcohols (65% C12, 26% C14, 8% C16, 1% C10)	42.88% C8, 1.01% C6, 1.01%	NA 1265	79089	NA 173	Regulator,	
i-Nonyl alcohol         3452-97-9         #####         NA 153         N/A         Alcohol/Ether           Isobutyl alcohol         78-83-1         1507         2622         Solvent         Alcohol/Ether           Isodecyl alcohol         25339-17-7         NA 168         3242         Solvent         Alcohol/Ether           Isopropyl alcohol         67-63-0         47501         342         Microbiocide, Solvent         Alcohol/Ether           Isostearyl alcohol         112-53-8         1509         2343         Pheromone, Adjuvant         Pheromone, Alcohol/Ether           Methanol         67-56-1         53801         1018         Solvent, Alcohol/Ether         Alcohol/Ether           Methoxypropanol         107-98-2         NA 90         2675         Solvent         Alcohol/Ether           Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether	C14, 8% C16, 1% C10)		79056	NA 744		Alcohol/Ether
Isobutyl alcohol   78-83-1   1507   2622   Solvent   Alcohol/Ether					N/A	Alcohol/Ether
Isodecyl alcohol   25339-17-7   NA 168   3242   Solvent   Alcohol/Ether					N/A	Alcohol/Ether
Isopropyl alcohol   67-63-0   47501   342   Microbiocide, Solvent   Alcohol/Ether	<del></del>				Solvent	Alcohol/Ether
Solvent   Isostearyl alcohol   27458-93-1   NA 156   2627   Adjuvant   Alcohol/Ether						Alcohol/Ether
Lauryl alcohol   112-53-8   1509   2343   Pheromone, Adjuvant   Alcohol/Ether						Alcohol/Ether
Methanol   67-56-1   53801   1018   Solvent, Adjuvant, Microbiocide						Alcohol/Ether
Methoxypropanol   107-98-2   NA 90   2675   Solvent   Alcohol/Ether				2343		
Methoxypropanol         107-98-2         NA 90         2675         Solvent         Alcohol/Ether           Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether	Methanol	67-56-1	53801	1018	Solvent, Adjuvant,	
Myristyl alcohol         112-72-1         1510         2344         Pheromone, Fragrance         Alcohol/Ether           n-Butyl alcohol         71-36-3         NA 468         3077         Solvent         Alcohol/Ether           n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether		107-98-2	NA 90	2675		Alcohol/Ether
n-Butyl alcohol   71-36-3   NA 468   3077   Solvent   Alcohol/Ether     n-Decyl alcohol   112-30-1   79038   3124   Plant Growth   Regulator     n-Propoxy propanol   30136-13-1   NA 798   2837   Solvent   Alcohol/Ether     n-Propyl alcohol   71-23-8   47502   1603   Solvent   Alcohol/Ether	Myristyl alcohol				Pheromone,	
n-Decyl alcohol         112-30-1         79038         3124         Plant Growth Regulator         Alcohol/Ether           n-Propoxy propanol         30136-13-1         NA 798         2837         Solvent         Alcohol/Ether           n-Propyl alcohol         71-23-8         47502         1603         Solvent         Alcohol/Ether	n-Butyl alcohol	71-36-3	NA 468	3077		Alcohol/Ether
n-Propoxy propanol 30136-13-1 NA 798 2837 Solvent Alcohol/Ether n-Propyl alcohol 71-23-8 47502 1603 Solvent Alcohol/Ether					Plant Growth	
n-Propyl alcohol 71-23-8 47502 1603 Solvent Alcohol/Ether	n-Propoxy propanol	30136-13-1	NA 798	2837		Alcohol/Ether
Alconol/Riner	Oleyl alcohol	143-28-2	NA 9	3313	Adjuvant	Alcohol/Ether
Propargyl alcohol 107-19-7 68702 NA 609 Breakdown Alcohol/Ether						

Chemical Name	CAS Number	TIC EDA DO	GA CI	T	
<u>Chemical Ivame</u>	CAS Number	U.S. EPA PC		Use Type	Chemical Class
		Code	<u>Code</u>		
Propylene oxide	75.56.0	40504		product	
sec-Butanol	75-56-9	42501	508	Fumigant	Alcohol/Ether
	75-65-0	1505	NA 64	Solvent	Alcohol/Ether
Sec-butyl alcohol	78-92-2	1502	3078	Solvent	Alcohol/Ether
Stearyl alcohol	112-92-5	NA 110	2892	Adjuvant	Alcohol/Ether
Tetrahydro furfuryl alcohol	97-99-4	NA 945	3471	Solvent	Alcohol/Ether
(2-	150-39-0	39108	NA 330	Adjuvant	Chelating agent
Hydroxyethyl)ethylenediamine					
triacetic acid					
Dimethamine EDTA	NA 167	NA 319	3159	Adjuvant	Chelating agent
EDTA	60-00-4	39101	1702	Adjuvant	Chelating agent
EDTA, ammonium salt	7379-26-2	39117	889	Adjuvant	Chelating agent
EDTA, diethanolamine salt	68133-37-9	NA 273	3187	Adjuvant	Chelating agent
EDTA, disodium salt	139-33-3	39115	2101	Herbicide,	Chelating agent
				Adjuvant	0
EDTA, disodium salt	139-33-3	39115	954	Herbicide,	Chelating agent
TOWN .				Adjuvant	
EDTA, iron chelate	NA 890	NA 170	3240	Herbicide	Chelating agent
EDTA, monoethanolamine salt	7379-26-2	39117	2013	Adjuvant	Chelating agent
EDTA, monopotassium salt	7379-27-3	39111	NA 331	Adjuvant	Chelating agent
EDTA, potassium salt	NA 891	NA 170	3350	Adjuvant	Chelating agent
EDTA, sodium salt	17421-79-3	39103	1757	Adjuvant	Chelating agent
EDTA, tetrapotassium salt	5964-35-2	39118	1054	Adjuvant	Chelating agent
EDTA, tetrasodium salt	64-02-8	39107	759	Adjuvant	Chelating agent
:EDTA, trisodium salt	150-38-9	39110	953	Adjuvant	Chelating agent
Ethanolamine	63517-71-5	39116	NA 334	Adjuvant,	Chelating agent
ethylenediaminetetraacetate				Fungicide	Onorating agent
N-(2-hydroxyethyl) ethylene	139-89-9	39109	911	Microbiocide,	Chelating agent
diamine triacetic acid, trisodium				Adjuvant	January agont
salt				<b>3</b>	
· Nitrilotriacetic acid	139-13-9	NA 228	NA 228	Adjuvant	Chelating agent
Nitrilotriacetic acid, sodium	10042-84-9	#####	NA 121	Adjuvant	Chelating agent
salt					
Sodium N-(2-	53404-54-9	39121	NA 335	Adjuvant	Chelating agent
hydroxyethyl)ethylenediaminet				•	
riacetate					
Tetra(monoethanolamine)	53404-52-7	39112	NA 332	Adjuvant,	Chelating agent
ethylenediaminetetraacetate Triethylamine EDTA	371.500			Adjuvant	
	NA 790	NA 146	3486	Adjuvant	Chelating agent
Triethylamine nitrilo triacetate	NA 537	NA 978	3487	Adjuvant	Chelating agent
Tripotassium	17572-97-3	39113	1177	Adjuvant	Chelating agent
ethylenediaminetetraacetate Trisodium nitrilo triacetate	5064 31 3	- 2010			
	5064-31-3	39106	1121	Adjuvant	Chelating agent
2,4,5-T, butoxyethanol ester	2545-59-7	82053	819	Herbicide	Chlorophenoxy acid
2,4-D, butoxyethanol ester	1000 50 0				or ester, Glycol Ether
2,7-D, butoxycmanor ester	1929-73-3	30053	802	Herbicide	Chlorophenoxy acid
2-(2-Butoxyethoxy)ethanol	110 24 5	11500	774		or ester, Glycol Ether
2-(2-Datoxycmoxy)emanol	112-34-5	11502	NA 117	Solvent	Alcohol/Ether,
4-(2,4-DB), butoxyethanol	32357-46-3	20052			Glycol Ether
ester	34337-40-3	30853	837	Herbicide	Chlorophenoxy acid
Alkylaryl polyglycol ether	NA 319	NA 500	1264	A 1'	or ester, Glycol Ether
polygryou cinci	נונ חוו	NA 599	1264	Adjuvant	Polyalkyloxy
		ļ			Compound, Glycol
Cinoxate	104-28-9	76604	NA 706	NT/A	Ether
	-0.20-7	7000+	14V \00	N/A	Glycol Ether

Dichlorprop, butoxyethanol ester  Diethylene glycol monoethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl ether Diethylene glycol monomethyl Ethylene glycol monomethyl ether Diethylene glycol monomethyl Ethylene glycol glow gropylene glycol glycol glycol Ether Diede Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ethylene glycol glyc	Chemical Name	CAS Number	TIC EDA DO	CA Char	I Ioo Thurs	[ G
Dichlorprop, butoxyethanol ester    Dichylene glycol monoethyl ether    Diethylene glycol monomethyl ether    Diethylene glycol monomethyl ether    Diethylene glycol monomethyl ether    Diethylene glycol monomethyl ether    Diethylene glycol monomethyl    ether    Ethoxyethoxyethyl 2,4-    dichlorophenoxyacetate    Ethyl amino benzoate    Ethyl amino benzoate    Haloxyfop-etotyl (unstated stereochemistry)    MCPA, butoxyethanol ester    Silvex, butoxyethanol ester    Triclopyr, butoxyethyl ester    (Decyl oxy) poly (oxyethylene)    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    2,6,8-trinethyl-4-nonyloxy    poly (oxypropylene)    368     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     NA 29     Herbicide    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Adjuvant    Chlorophenoxy acid    or ester, Glycol Ether    Adjuvant    Chlorophenoxy acid    or ester, Glycol Ether    Adjuvant    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy acid    or ester, Glycol Ether    Chlorophenoxy    Chlorophenoxy    Chlorophenoxy    Chlorophenoxy    Compound    Polyalkyloxy    Compound    Polyalkyloxy    Compound	Chemical Manie	CAS Number	U.S. EPA PC		Use Type	Chemical Class
ester    Regulator, Herbicide or ester, Glycol Ether   Solvent	Dichlorprop hutoxyethanol	53404 21 2			Plant Caraci	Chi.
Diethylene glycol monoethyl ether   Diethylene glycol monomethyl ether   Diethylene glycol monomethyl ether   Diethylene glycol monomethyl ether   Diethylene glycol monomethyl ether   Solvent   Solvent   Solvent   Glycol Ether   Solvent   Solvent   Solvent   Glycol Ether   Solvent		33404-31-2	31433	923		Chlorophenoxy acid
Diethylene glycol monomethylene ether   Diethylene glycol monomethylene ether   Diethylene glycol monomethylene ether   Diethylene glycol monomethylene ether   Diethylene glycol monomethylene glycol monomethylene   Chlorophenoxyacid   Solvent	- Obiox					or ester, Glycol Ether
ether Diethylene glycol monomethyl ether Ethoxyethoxyethyl 2,4- dichlorophenoxyacetate Ethyl amino benzoate 111-15-9 NA 260 3192 N/A Glycol Ether Ethylene glycol, mono-butyl ether Ethylene glycol, mono-butyl 111-76-2 11501 1880 Solvent Ethylene glycol, mono-butyl 111-76-2 11501 1880 Solvent, Glycol Ether Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester 19480-43-4 30553 785 Herbicide Chlorophenoxy acid or ester, Glycol Ether Glycol, McPA, butoxyethanol ester 19398-13-1 82553 828 Herbicide Chlorophenoxy acid or ester, Glycol Ether Chlorophenoxy acid or ester, Glycol Ether Glycol, Glycol Ether Glycol, Glycol Ether Glycol, Glycol Ether Glycol, Glycol Ether Glycol, Glycol, Glycol, Glycol Ether Glycol, Glycol	Diethylene glycol monoethyl	111-90-0	11504	2505		Claus 1 Eu
Diethylene glycol monomethyl ether  Ethoxyethoxyethyl 2,4- dichlorophenoxyacetate  Ethylene glycol, mono-butyl ether  Ethylene glycol, mono-butyl ether  Ethylene glycol, mono-butyl ether  Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester  Silvex, butoxyethanol ester  Triclopyr, butoxyethyl ester  (Decyl oxy) poly (oxy ethylene) poly (oxypropylene)  (Octyl oxy) poly (oxyethylene) poly (oxypropylene)  2,6,8-trimethyl-4-nonyloxy poly (ethylene oxy) ethyl phosphate with an average of 4.2 moles of ethylene oxide. Hanoly for or ether alkyl phosphate  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 9.2 moles of ethylene oxide. Alkoy poly (ethylene oxy) ethyl phosphate ether  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate moles of ethylene oxy) ethyl phosphate moles of ethylene oxyl ethyl phosphate and phosphate. Make of exheracter and phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-  Alkyl (100% C10-C14) oxy poly (ethyleneoxy) ethyl phosphate. mono-		111-50-0	11504	2505	, ,	Glycol Ether
Ethoxyethoxyethyl 2,4-  dichlorophenoxyacetate   Ethoxyethoxyethyl 2,4-  dichlorophenoxyacetate   Ethyl amino benzoate   111-15-9   NA 260   3192   N/A   Glycol Ether   Ethylene glycol, mono-butyl   111-76-2   11501   1880   Solvent,   Glycol Ether   Glycol E		1 111-77-3	42204	2506		Classel Est.
Ethoxyethoxyacetate Ethyl amino benzoate Ethyl amino benzoate Ethylene glycol, mono-butyl ether Ethylene glycol, mono-butyl ether Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester Silvex, butoxyethanol ester  Fictory, butoxyethyl ester  Fictory, butoxyethyl ester  Chlorophenoxy acid or ester, Glycol Ether Adjuvant			42204	2500		Glycol Ether
dichlorophenoxyacetate	Ethoxyethoxyethyl 2.4-	53404-36-7	30058	NA 245		Chlorenhanessia
Ethyl amino benzoate		,	30030	1011243	Ticibicide	
Ethylene glycol, mono-butyl ether  Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester  Silvex, butoxyethanol ester  Triclopyr, butoxyethanol ester  (Decyl oxy) poly (oxy ethylene) poly (oxy propylene)  (Octyl oxy) poly (oxy propylene)  (Octyl oxy) poly (oxyethylene) poly (oxypropylene)  2,6,8-trimethyl-4-nonyloxy poly ethylene oxy) ethylene oxy) ethyl phosphate, man average of 4.2 moles of ethylene oxide, the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 9.10 moles of ethylene oxide, the nonly group ether & alkyl poly oxyalkylene ether & alkyl poly oxyalkylene ether & alkyl ploy oxyalkylene ether & alkyl (100% C10-C13) oxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Altox and a servance of 4.2 mono-  Alkyl (100% C10-C14) oxy  Altox and a servance of 4.2 mono-  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl phosphate  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl phosphate  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl encoxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl encoxy  By Compound  Alkenor and a servance oxy ethyl encoxy  By Compound  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl encoxy  Alkyl (100% C10-C14) oxy  Altox and a servance oxy ethyl encoxy  Alkyl (100% C10-C14) oxy  Alkyl (100%		111-15-9	NA 260	3192	N/A	
tether Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester  19480-43-4  30553  785  Herbicide Glycol Ether Chlorophenoxy acid or ester, Glycol Ether Triclopyr, butoxyethyle ester  64700-56-7  Triclopyr, butoxyethyle ester (Decyl oxy) poly (oxy ethylene) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) 2,6,8-trimethyl-4-nonyloxy poly (ethylene oxy) ethylene) with an average of 4.2 moles of ethylene oxide. the nonly group is a propylene with an average of 4.2 moles of ethylene oxide Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethylene oxypoly (ethylene oxy) othylene oxydethylene) with an average of 4.2 moles of ethylene oxide Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethylene oxybethylene Alkyl (100% C10-C14) oxy poly (ethylene oxy) ethyl phosphate Alkyl (100%	Ethylene glycol, mono-butyl	111-76-2			<del></del>	
Haloxyfop-etotyl (unstated stereochemistry)  MCPA, butoxyethanol ester  Silvex, butoxyethanol ester  19480-43-4  30553  785  Herbicide  Chlorophenoxy acid or ester, Glycol Ether  Chlorophenoxy acid or ester, Glycol Ether  Triclopyr, butoxyethyl ester  (Decyl oxy) poly (oxy ethylene) poly (oxy propylene)  (Octyl oxy) poly (oxyethylene) poly (oxypropylene)  2,6,8-trimethyl-4-nonyloxy polyethylene oxyethanol  4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide. the nonly group is a propylene  Alkony poly (ethyleneoxy) ethyl phosphate ether  Alkoxy poly (ethyleneoxy) ethyl phosphate cher  Alkoxy poly (ethyleneoxy) ethyl phosphate Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Albert Alexandra (1			11001	1000		Chycol Edici
stereochemistry)  MCPA, butoxyethanol ester  Silvex, butoxyethanol ester  Silvex, butoxyethanol ester  Triclopyr, butoxyethyl ester  (Chlorophenoxy acid or ester, Glycol Ether Alicophenoxy acid acid acid acid poly (exythylene) NA 1102 3707 Adjuvant Polyalkyloxy Compound Alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid acid acid poly oxyalkylene ether alicophenoxy acid acid poly oxyalkylene ether alicophenoxy acid poly acid acid acid poly oxyalkylene ether alicophenoxy acid acid acid acid acid acid acid acid	Haloxyfop-etotyl (unstated	87237-48-7	NA 200	NA 199		Arylovymhenovy
MCPA, butoxyethanol ester    19480-43-4   30553   785   Herbicide   Chlorophenoxy acid or ester, Glycol Ether					1102010100	
MCPA, butoxyethanol ester   19480-43-4   30553   785   Herbicide   Chlorophenoxy acid or ester, Glycol Ether   19398-13-1   82553   828   Herbicide   Chlorophenoxy acid or ester, Glycol Ether   Triclopyr, butoxyethyl ester   64700-56-7   #####   2170   Herbicide   Chlorophenoxy acid or ester, Glycol Ether   Chloropyridinyl, Glycol Ether   Chlorophenoxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyalkyloxy   Compound   Polyal						Glycol Ether
Silvex, butoxyethanol ester 19398-13-1 82553 828 Herbicide Chlorophenoxy acid or ester, Glycol Ether Chlorophenoxy acid or ester, Glycol Ether Chlorophenoxy acid or ester, Glycol Ether Chlorophenoxy acid or ester, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Chloropyridinyl, Glycol Ether Polyalkyloxy ethylene) poly (oxy propylene) Compound Polyalkyloxy	MCPA, butoxyethanol ester	19480-43-4	30553	785	Herbicide	
Silvex, butoxyethanol ester  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethyl ester  G4700-56-7  Triclopyr, butoxyethylene oxyethylene)  Ghyoalkyloxy Compound  Folyalkyloxy Compound  Microbiocide  Polyalkyloxy Compound  Microbiocide  Polyalkyloxy Compound  Triclopyr, butoxyethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 4.2 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene)  with an average of 9-10 mole						
Triclopyr, butoxyethyl ester  (Decyl oxy) poly (oxy ethylene) poly (oxy propylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) 2,6,8-trimethyl-4-nonyloxy polyethylene oxyethanol 4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide. the nonly group is a propylene a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether & alkyl poly oxyalkylene ether Alkoxy poly (ethyleneoxy) ethyl phosphate Alkoxy poly (ethyleneoxy) ethyl phosphate Alkoxy poly (ethyleneoxy) poly (ethylene oxy) ethyl phosphate Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono- Alkyl (100% C10-C14) oxy	Silvex, butoxyethanol ester	19398-13-1	82553	828	Herbicide	
Thiclopyr, butoxyethyl ester   64700-56-7   ####   2170   Herbicide   Chloropyridinyl, Glycol Ether						
(Decyl oxy) poly (oxy ethylene) (Octyl oxy) poly (oxy propylene) (Octyl oxy) poly (oxyethylene) poly (oxyethylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) (Octyl oxy) poly (oxypropylene) (Octyl oxyethylene oxyethanol (Octyl oxyethylene oxyethanol (Octyl oxyethylene oxyethylene) (Octyl oxyethylene	Triclopyr, butoxyethyl ester	64700-56-7	#####	2170	Herbicide	
ethylene) poly (oxy propylene) (Octyl oxy) poly (oxyethylene) poly (oxypropylene) 2,6,8-trimethyl-4-nonyloxy polyethylene oxyethanol 4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide the nonly group is a propylene a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl plosphate Alkoxy poly (ethyleneoxy) ethyl phosphate Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono- Alkyl (100% C10-C14) oxy Alignal Ali						Glycol Ether
Compound   Compound			NA 117	3636	Adjuvant	Polyalkyloxy
poly (oxypropylene)  2,6,8-trimethyl-4-nonyloxy polyethylene oxyethanol  4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  a compound  NA 1162  NA 175  Soap/Surfactant  NA 29  NA 29  NA 40  2066  Microbiocide  Polyalkyloxy Compound  Microbiocide  Polyalkyloxy Compound  Polyalkyloxy Compound  Adjuvant Soap/Surfactant Soap/Surfactant Soap/Surfactant Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Compound  Polyalkyloxy Polyalkyloxy Polyalkyloxy Compound  Polyalkyloxy P						
2,6,8-trimethyl-4-nonyloxy polyethylene oxyethanol  4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide. the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy poly (oxyethylene) with phosphate, mono-  Alkyl (100% C10-C14) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy poly (ethylene oxy) ethyl phosphate, mono-		61827-84-7	NA 102	3707	Adjuvant	
polyethylene oxyethanol 4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether & alkyl poly oxyalkylene ether & alkyl poly oxyalkylene ether Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) plosy despendent of the proposed of the polyalkyloxy plosy despendent oxide  Alkyl (100% C10-C14) oxy Alkyl	poly (oxypropylene)	1				
4-nonyl phenoxy poly (ethylene oxy) ethyl phosphate, magnesium salt  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide. the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl	2,0,8-mmetnyl-4-nonyloxy	NA 1162	NA 175	5599	Adjuvant	
(ethylene oxy) ethyl phosphate, magnesium salt  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) oxy  Alyuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Soap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Alkyl (100% C10-C14) oxy  Aljuvant,  Boap/Surfactant  Compound  Compound		774 005	271 440			
magnesium salt  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (1			NA 149	3698		
a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an average of 9.10 moles of ethylene oxide Alkenoic acid poly oxyalkylene ether Alkoxy poly (ethyleneoxy) ethyl phosphate Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono- Alkyl (100% C10-C14) oxy Alkyl (100% C10-C14)		,			, Adjuvant	Compound ·
hydroxypoly (oxyethylene) with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an averageof 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) ox		NIA 27	274.40	2066	25: 1: 1	
with an average of 4.2 moles of ethylene oxide.the nonly group is a propylene  a-(p-nonylphenyl)-omega-hydroxypoly (oxyethylene) with an average of 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy service of the state of		INA 27	NA 40	2000	Microbiocide	
ethylene oxide.the nonly group is a propylene  a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an averageof 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy	with an average of 4.2 moles of	f				Compound
is a propylene a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an averageof 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100% C1	ethylene oxide the nonly groun					
a-(p-nonylphenyl)-omega- hydroxypoly (oxyethylene) with an averageof 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alk						
hydroxypoly (oxyethylene) with an averageof 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) ox		NA 28	NA 41	2052	Microbiogido	Dolandan
with an average of 9-10 moles of ethylene oxide  Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14) o			1111.41	2032	MICIODIOCIDE	
of ethylene oxide Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  A						Compound
Alkenoic acid poly oxyalkylene ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100% C10-C14						
ether & alkyl poly oxyalkylene ether  Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy		NA 396	NA 718	2364	Adiuvant	Polyalkylovy
Alkoxy poly (ethyleneoxy) ethyl phosphate  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy  Alkyl (100	ether & alkyl poly oxyalkylene				1 Lagavant	
ethyl phosphate Soap/Surfactant Compound  Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy 68585-36-4 NA 579 3574 Adjuvant, Polyalkyloxy  Tolyalkyloxy Compound  Soap/Surfactant Compound  Polyalkyloxy Polyalkyloxy						Compound
Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy 68585-36-4 NA 579 3574 Adjuvant, Polyalkyloxy Compound		NA 286	NA 555	1390	Adiuvant.	Polyalkyloxy
Alkyl (100% C10-C13) oxy poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy 68585-36-4 NA 579 3574 Adjuvant, Polyalkyloxy Polyalkyloxy						
poly (ethylene oxy) ethyl phosphate, mono-  Alkyl (100% C10-C14) oxy 68585-36-4 NA 579 3574 Adjuvant, Polyalkyloxy		NA 288	NA 560	3575		
phosphate, mono- Alkyl (100% C10-C14) oxy 68585-36-4 NA 579 3574 Adjuvant, Polyalkyloxy						
nolar (albertance ) if 1						_
1		68585-36-4	NA 579	3574	Adjuvant,	Polyalkyloxy
					Soap/Surfactant	Compound
phosphate All 1 (1999) Get 2019						-
Alkyl (100% C11-C15) 68131-40-8 79084 3572 Insecticide, Polyalkyloxy		68131-40-8	79084	3572		Polyalkyloxy
pnenoxypoly (ethylene oxy) Fungicide, Compound			1			
ethanol Avicide,	ethanol					
Allert (CS C10) well-to-cit Costs 50 st. 272 st.	Allert (CR CIO)	60515 55				
Alkyl (C8,C10) polyglycoside 68515-73-1 NA 154 4015 Adjuvant Polyalkyloxy	Alkyl (C8,C10) polyglycoside	I 60415 72 1 1	NIA 15A	401E	A .3:	D 1 11 .
Compound		06313-73-1	IVA 154	4015	Adjuvant	Polyalkyloxy

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
<u> </u>	C210 1 tumbor	Code	Code	Ose Type	Chemical Class
Alkyl and alkylaryl poly	NA 398	NA 720	1706	Adjuvant	Polyalkyloxy
(oxyethylene) glycols, mixed				1	Compound
Alkyl aryl alkoxylate	NA 314	NA 594	2366	Adjuvant	Polyalkyloxy
					Compound
Alkyl aryl polyoxyalkane ether	NA 323	NA 603	2370	Adjuvant	Polyalkyloxy
and free fatty acids					Compound
Alkyl oxy poly (ethyleneoxy)	NA 679	NA 125	1715	Adjuvant,	Polyalkyloxy
ethyl phosphate				Soap/Surfactant	Compound
Alkyl oxy polyethoxy ethanol	NA 306	NA 578	2048	Adjuvant	Polyalkyloxy
A11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	371 000				Compound
Alkyl oxy-polyoxyethylene and	NA 289	NA 561	2136	Adjuvant	Polyalkyloxy
alkyl phenyloxy- polyoxyethylene					Compound
Alkyl phenoxy poly (ethoxy)	NA 291	NA 562	1172	4 11	
ethanol	NA 291	NA 563	1173	Adjuvant	Polyalkyloxy
Alkyl phenyl poly (ethoxy)	NA 294	NA 566	1064	A 3:	Compound
ethanol	NA 294	NA 300	1004	Adjuvant	Polyalkyloxy
Alkyl polyethylene glycol ether	NA 668	NA 123	1376	Adimment	Compound
posytomyrono grytori omor	1421 000	IVA 125	1370	Adjuvant, Soap/Surfactant	Polyalkyloxy Compound
Alkyl polyoxy alkylene ether	NA 295	NA 567	2123	Adjuvant	
The persons units one other	141 255	IVA 307	2123	Adjuvant	Polyalkyloxy
Alkyl polyoxy ethylene ether,	NA 592	NA 107	2014	Adjuvant	Compound Polyalkyloxy
diphosphoric acid ester.	1111332	1124 107	2014	Aujuvani	Compound
Alkyl polyoxy ethylene ether,	NA 296	NA 568	2377	Adjuvant	Polyalkyloxy
free fatty acids	111230	147 500	2311	Aujuvani	Compound
Alkyl polyoxy ethylene ether,	NA 694	NA 127	2015	Adjuvant	Polyalkyloxy
monophosphoric acid ester			2013	rajavant	Compound
Alkyl polyoxy ethylene ethers,	NA 297	NA 569	2158	Adjuvant	Polyalkyloxy
polymerized resins and fatty				,	Compound
acids					
Alkyl polyoxy ethylene glycols	NA 285	NA 554	2051	Adjuvant	Polyalkyloxy
					Compound
Alkylaryl hydroxypoly	NA 316	NA 596	2037	Adjuvant	Polyalkyloxy
(oxyethylene) ethanol					Compound
Alkylaryl poly(oxyethylene)	NA 315	NA 595	748	Adjuvant	Polyalkyloxy
glycol					Compound
Alkylaryl polyalkoxylated	NA 705	NA 129	2174	Adjuvant	Polyalkyloxy
alcohols	27. 77.4	371 400			Compound
Alkylaryl polyethoxy ethanol phosphate	NA 714	NA 130	2368	Adjuvant,	Polyalkyloxy
Alkylaryl polyethoxyethanol	NA 912	NIA 174	5200	Soap/Surfactant	Compound
sulfates	NA 912	NA 174	5323	Adjuvant	Polyalkyloxy
Alkylaryl polyethylene glycol	NA 318	NA 598	2198	A 41	Compound
ether	IVA 310	NA 390	2198	Adjuvant,	Polyalkyloxy
Alkylaryl polyglycol ester	NA 1470	NA 218	NA 218	Soap/Surfactant	Compound
	142 17/0	1477 210	MA 210	Adjuvant	Polyalkyloxy
Alkylaryl polyglycol ether	NA 319	NA 599	1264	Adjuvant	Compound Polyalkyloxy
		1121 333	1204	Aujuvanı	Compound, Glycol
					Ether
Alkylaryl polyoxy glycol	NA 322	NA 602	2369	Adjuvant	Polyalkyloxy
	- ·		2307	2 Kijavani	Compound
Alkylaryl polyoxyethylene	NA 320	NA 600	881	Adjuvant	Polyalkyloxy
ether			301		Compound
Alkylaryl polyoxyethylene	NA 321	NA 601	2024	Adjuvant,	Polyalkyloxy
glycol phosphate ester				Soap/Surfactant	Compound
Alkylaryl poyloxyethylene	NA 671	NA 124	1507	Adjuvant	Polyalkyloxy

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chaminal Olars
	<u>GAIG TRUMOCI</u>	Code	Code	Ose Type	Chemical Class
ethanol					Compound
Alkylpoly glycol ether	NA 292	NA 564	1172	Adjuvant	Polyalkyloxy
				1 Augustuni	Compound
Allyl oxy poly ethylene glycol	NA 279	NA 545	2376	N/A	Polyalkyloxy
monoallyl acetate					Compound
Alpha (para-tert-butyl phenyl)-	NA 235	NA 463	1605	Adjuvant	Polyalkyloxy
omega-hydroxypoly					Compound
(oxyethylene)-					•
Alpha (para-tert-butylphenyl)-	NA 234	NA 462	1786	Adjuvant	Polyalkyloxy
omega-hydroxypoly		[			Compound
(oxyethylene)	371 001				
Alpha-(omega-sec-butyl phenylpoly (oxypropylene))-	NA 231	NA 452	1885	Adjuvant	Polyalkyloxy
omega-hydroxypoly					Compound
Alpha-(p-(1,1,3,3-tetramethyl	NA 609	374 111	1000		
butyl) phenyl)-omega-hydroxy	NA 609	NA 111	1932	Adjuvant	Polyalkyloxy
poly					Compound
Alpha-(p-nonylphenyl)-omega-	NA 745	NA 135	2710	A 2:	
hydroxy poly (oxypropylene)	14A 745	NA 155	2/10	Adjuvant	Polyalkyloxy
Alpha-(para-nonyl phenyl)-	NA 18	NA 31	1649	A dissessed	Compound
omega-hydroxy poly	142110	NA 31	1049	Adjuvant	Polyalkyloxy
(oxyethylene)					Compound
Alpha-alkyl (43%C10,	NA 684	NA 126	1834	Microbiocide	Polyalkyloxy
30%C14, 12%C12, 10%C16,		-112 120	1054	Micronocide	Compound
5%C18) poly (oxyethylene)					Compound
poly (oxypropylene) - I2					
complex					
Alpha-alkyl (C10-C12)-omega-	NA 307	NA 582	2077	Adjuvant	Polyalkyloxy
hydroxypoly (oxyethylene)		·			Compound
Alpha-alkyl (C10-C18)-	NA 301	NA 573	1700	Adjuvant	Polyalkyloxy
omega-hydroxypoly					Compound
(oxyethylene) sulfate 150 solvent neutral BP 901	771.545				
base oil	NA 747	NA 136	2724	Insecticide	Petroleum derivative
Alkylated aromatic petroleum	68919-17-5	54001	274 451		
oil	00919-17-3	54001	NA 451	Insecticide,	Petroleum derivative
Amoco 6342	NA 715	NA 131	2204	Adjuvant	
Anthracene oil	120-12-7	NA 185	2384	N/A	Petroleum derivative
I manucone on	120-12-7	IVA 165	NA 184	Insecticide,	Petroleum derivative
				Herbicide, Rodenticide	
Aromatic 100	NA 269	NA 524	2394	Insecticide,	Petroleum derivative
	- 11-1-207	1121327	23,74	Solvent	remoleum derivative
Aromatic 150	NA 716	NA 131	2395	Insecticide,	Petroleum derivative
			2000	Solvent	1 enotenti dell'attive
Aromatic 200	64742-94-5	6602	2396	Insecticide,	Petroleum derivative
				Solvent	2 offoloum delivative
Asphalt solids	8052-42-4	22001	1140	Pruning Aid	Petroleum derivative
Bitumen	8052-42-4	22002	NA 171	N/A	Petroleum derivative
Candle wax	NA 227	NA 440	2443	N/A	Petroleum derivative
Chevron 100 neutral oil	68602-80-2	6601	2456	Insecticide	Petroleum derivative
Chevron base oil "C"	NA 224	NA 431	2455	Insecticide	Petroleum derivative
Chevron solvent 425	NA 722	NA 132	2457	Solvent	Petroleum derivative
Coal tar distillate boiling	65996-91-0	6101	5042	Insecticide,	Petroleum derivative
between 270-300 deg C			'	Herbicide	z odolouli delivative
Coal tar hydrocarbons	8007-45-2	22003	1719	Wood	Petroleum derivative
				Preservative	= 2-010mm GOTTABITAE

Chemical Name .	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	<u>Code</u>		
Coal tar neutral oils and coal tar acid combinations	65996-82-9	25001	144	Insecticide, Herbicide	Petroleum derivative
Coal tar phenols	1319-77-3	22101	1720	N/A	Petroleum derivative, Phenols
Coal tar pitch >351 deg.C(AWPI)	65996-93-2	#####	NA 106	Insecticide	Petroleum derivative
Conoco LPA	NA 195	NA 386	2478	N/A	Petroleum derivative
Creosote	8001-58-9	25004	171	Wood Preservative	Petroleum derivative
Creosote oil (note: derived	61789-28-4	25003	NA 203	Wood	Petroleum derivative
from any source)				Preservative,	1 ou ole and derivative
Cumene	98-82-8	NA 105	3116	Fungicide N/A	D-4-1 1 · · ·
Cyclohexane	110-82-7	25901	2087	Solvent	Petroleum derivative
Diesel fuel no. 2	68476-34-6	63514	3923	Insecticide,	Petroleum derivative
	0017051-0	05514	3923	Adjuvant	Petroleum derivative
Ethyl benzene	100-41-4	NA 142	3197	N/A	Petroleum derivative
Ethylene	74-85-1	41901	270	Plant Growth	Petroleum derivative
			2.0	Regulator	- Carolenti dell'attve
Fuel oil #1	70892-10-3	63511	NA 520	N/A	Petroleum derivative
Fuel oil #2	68476-30-2	63505	NA 517	N/A	Petroleum derivative
Fuel oil #4	68476-31-3	63512	NA 521	N/A	Petroleum derivative
Fuel oil #6	68553-00-4	63513	NA 522	N/A	Petroleum derivative
Gasoline	NA 945	NA 221	1899	N/A	Petroleum derivative
Heavy oil (coal) 301-350 deg.C (AWPI)	90640-86-1	#####	NA 106	N/A	Petroleum derivative
Hydrotreated paraffinic solvent	NA 91	NA 182	2601	Solvent	Petroleum derivative
Isobutane	75-28-5	97101	2621	Propellant	Petroleum derivative
Isoparaffin, C11-C12	NA 85	NA 163	2623	N/A	Petroleum derivative
Isoparaffin, C12-C14	NA 86	NA 164	2624	N/A	Petroleum derivative
Isoparaffinic hydrocarbons	64771-72-8	#####	1641	N/A	Petroleum derivative
Isopentane	78-78-4	NA: 165	3244	Solvent	Petroleum derivative
Jet fuel	94114-58-6	63515	NA 523	Insecticide, Solvent	Petroleum derivative
Kerosene	8008-20-6	63501	2071	Insecticide	Petroleum derivative
KM spray oil	NA 78	NA 150	2631	N/A	Petroleum derivative
Ligroin	8032-32-4	63506	2642	Solvent	Petroleum derivative
Low molecular weight paraffinic oil	64642-47-8	NA 173	5252	Insecticide	Petroleum derivative
MCIAL code 401	64742-55-8	63503	2045	Insecticide, Adjuvant	Petroleum derivative
Mineral oil	8012-95-1	63502	401	Insecticide, Adjuvant	Petroleum derivative
Mineral oil, petroleum distillates, solvent refined light	64741-89-5	63503	3846	Herbicide, Plant Growth	Petroleum derivative
_		:		Regulator, Insecticide, Adjuvant	
Mineral oil, petroleum extract,	64724-04-7	NA 171	3847	Insecticide,	Petroleum derivative
heavy paraffinic distillate	,	******	3077	Adjuvant	T endienni delivative
Mineral seal oil	NA 930	NA 67	2687	Insecticide,	Petroleum derivative
			/	Adjuvant	- Judioum donivative
Mineral spirits	8032-32-4	63506	2688	Insecticide, Solvent,	Petroleum derivative
				Fungicide	
-				-0	

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	I I a Tama	T 67 . 167
Chemical Hame	CAS Number	Code	CA Chem Code	Use Type	Chemical Class
n-Hexane	110-54-3	NA 103	3227	Solvent	Petroleum derivative
Naphtha, heavy aromatic	64742-94-5	6602	1717	Insecticide,	Petroleum derivative
				Solvent	- sectionin dollyative
Orchex 796 oil	NA 899	NA 172	5179	Insecticide,	Petroleum derivative
Paraffin wax	0000 54.0			· Adjuvant	
Paraffin waxes (petroleum)	8002-74-2	NA 107	1214	Rodenticide	Petroleum derivative
hydrotreated	64742-51-4	NA 694	3545	N/A	Petroleum derivative
Paraffin waxes and	61788-76-9	NA 693	3721	N/A	Dottedanna da in ai
hydrocarbon waxes,		141055	3,21	IVA	Petroleum derivative
chlorinated					· ·
Pentane	109-66-0	98001	469	Solvent	Petroleum derivative
Petroleum derivative resin	64742-16-1	11401	1411	N/A	Petroleum derivative
Petroleum distillates	2227378	63503	763	Insecticide	Petroleum derivative
Petroleum distillates, aliphatic	2227378	63503	2768	Insecticide,	Petroleum derivative
				Adjuvant,	
Petroleum distillates, aromatic	68477-31-6	6501	1814	Solvent	
a substitutes, aromatic	00477-31-0	0301	1814	Solvent, Herbicide,	Petroleum derivative
	٠,			Insecticide,	
Petroleum distillates, refined	64741-51-1	NA 654	2106	Insecticide	Petroleum derivative
Petroleum hydrocarbons	8012-95-1	63502	473	Insecticide,	Petroleum derivative
· · _				Solvent	
Petroleum jelly	2229873	#####	1443	Insect	Petroleum derivative
				Repellent,	
Petroleum naphthenic oils	NA 990	NTA 655	0107	Adjuvant	
1 cuoleum naphtheme ons	NA 990	NA 655	2107	Insecticide,	Petroleum derivative
Petroleum oil, unclassified	68815-10-1	NA 121	765	Adjuvant Insecticide,	Petroleum derivative
			,05	Herbicide,	renoleum denvanve
, `				Fungicide,	
				Adjuvant	
Petroleum sulfonates	61789-85-3	#####	766	N/A	Petroleum derivative
Petroleum, unrefined	2227378	63503	1730	Insecticide,	Petroleum derivative
Polybutenes	9003-29-6	11402	1040	Adjuvant	<u> </u>
Polyisobutylene	9003-27-4	11403	1561	Rodenticide	Petroleum derivative
Propane	74-98-6	NA 109	2832	Rodenticide Propellant	Petroleum derivative
Propylene	1150-70-1	NA 800	2838	N/A	Petroleum derivative Petroleum derivative
Solvent naphtha (coal),150-200	65996-79-4	#####	NA 106	Solvent	Petroleum derivative
deg. C				DOITOIL	1 cu ole um demyative
Solvent naphtha (petroleum),	64742-95-6	86803	3804	Solvent	Petroleum derivative
light aromatic					
Summer oil	NA 1468	NA 218	NA 218	Insecticide,	Petroleum derivative
Sun superior spray oil 7N	NA 769	NA 139	2000	Adjuvant	
Can superior spray on 714	NA 709	NA 139	2902	Insecticide,	Petroleum derivative
Synthetic beeswax	NA 509	NA 920	2910	Adjuvant N/A	Dotroloum de inti
Tar	NA 1312	22004	NA 176	Wood	Petroleum derivative Petroleum derivative
				Preservative	r enoienni denvative
Tar acid oil	NA 1041	NA 139	2914	Insecticide	Petroleum derivative
Toluene	108-88-3	80601	1281	Solvent	Petroleum derivative
Turpentine	8006-64-2	84501	605	Insecticide,	Petroleum derivative
W/hite min 1 11	2040 47 5			Adjuvant	
White mineral oil	8042-47-5	63510	NA 519	Insecticide,	Petroleum derivative
		L		Adjuvant	<u> </u>

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Ohamia 101
	<u>Olio Ittaniou</u>	Code	Code	Use Type	Chemical Class
Winter oil	NA 1472	NA 219	NA 218	Adjuvant	Petroleum derivative
Xylene	1330-20-7	86802	622	Solvent,	
				Microbiocide	Petroleum derivative
Xylene range aromatic solvent	68920-06-9	NA 102	862	Solvent, Insecticide	Petroleum derivative
3-(3-hydroxypropyl)-hepta-	NA 90	NA 178	2610	Adjuvant	Silicone
methyl trisiloxane, ethoxylated, acetate					Sincono
Compounded silicone	NA 703	NA 129	2124	Adjuvant	Silicone
Dimethyl poly siloxane	63148-62-9	NA 104	1861	Insecticide,	Silicone
				Adjuvant	
Dimethyl silicone fluid emulsion	NA 696	NA 128	2028	Adjuvant	Silicone
Dow Corning antifoam Y-30 emulsion	NA 146	NA 280	2539	Adjuvant	Silicone
Dow Corning DB-110A- antifoam emulsion	NA 577	NA 104	2540	Adjuvant	Silicone
Heptamethyltrisiloxane ethoxylated (8 EO)	67674-67-3	NA 153	4009	Adjuvant	Silicone
Methyl silicone resins	9016-00-6	NA 77	3689	Adjuvant	Silicone
Methylated silica	67762-90-7	NA 173	5292	N/A	Silicone
Organo/modified polysiloxane	37281-78-0	NA 153	3997	Adjuvant	Silicone
Organosilicone, poly	67762-85-0	NA 173	5231	Adjuvant	Silicone
oxyalkylene ether copolymer	J. 7 J. J. J.		3231	Adjuvant	Sincone
Polyalkene oxide modified heptamethyl trisiloxane	27306-78-1	NA 146	3520	Adjuvant	Silicone
Polyalkyleneoxide modified	NA 904	NA 172	5203	Adjuvant	Silicone
polydimethyl-siloxane		1111172	5205	Aujuvani	Sincone
Polyether modified polysiloxane	NA 906	NA 172	5223	Adjuvant	Silicone
Polysiloxane	NA 1337	NA 180	5718	A 4:	0.11
Silicone	NA 815	NA 150	3796	Adjuvant Adjuvant	Silicone
Silicone defoamer	NA 462	NA 826	1917	Adjuvant	Silicone
Silicone mold release agent SM	NA 463	NA 827	2854		Silicone
2140				· N/A	Silicone
Silicone-polyether copolymer	27306-78-1	NA 151	3841	Adjuvant	Silicone
Trimethyl siloxy stearate	NA 541	NA 987	2965	N/A	Silicone
1,1,2,3-tetramethyl butylamine	NA 1010	NA 948	3472	Microbiocide,	Soap
dodecyl benzene sulfonate				Adjuvant,	
				Fungicide,	
1,3-propane diamine dodecyl	NIA 1021	274 115	22.60	Insecticide	
benzene sulfonate	NA 1021	NA 115	3369	Microbiocide,	Soap
benzene sunonate				Adjuvant,	
·				Fungicide,	
2,2-oxybis (4-dodecyl benzene	NA 1161	NA 175	1741	Insecticide	
sulfonate)	1VA 1101	NA 173	1741	Microbiocide, Adjuvant,	Soap
,				Fungicide,	
				Insecticide	
2-((2-amino ethyl) amino)	68084-55-9	NA 538	3034	Microbiocide,	Soap
ethanol dodecyl benzene			203.	Adjuvant,	SUAP
sulfonate	ļ			Fungicide,	
				Insecticide	
Alkanolamide surfactants	NA 911	NA 174	5322	Soap/Surfactant , Adjuvant	Soap
Alkyl* sodium benzene	68411-30-3	#####	NA 126	Microbiocide,	Soap
					soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		<u>Januar Olubo</u>
sulfonate *(56%C11, 33%C12,				Adjuvant,	
7%C10, 4%C13)				Fungicide,	
A1115.1	2225 54 5			Insecticide	
Ammonium lauryl sulfate	2235-54-3	79028	1017	Adjuvant,	Soap
			}	Insecticide,	
		ļ		Microbiocide,	
Ammonium oleate	544-60-5	31703	1230	Fungicide	
1 mmomuni cicato	344-00-3	31703	1230	Adjuvant, Insecticide	Soap
Ammonium tall oil fatty acid	544-60-5	31703	995	Adjuvant,	
soap	1	31,03	775	Insecticide	Soap
Benzene, 1,1'-oxybis-	119345-04-9	NA 147	3561	Microbiocide,	Soap
tetrapropylene derivatives,			0001	Adjuvant,	, soap
sulfonated, sodium				Fungicide,	
				Insecticide	
Butylamine dodecyl benzene	12068-09-6	NA 469	3079	Microbiocide,	Soap
sulfonate				Adjuvant,	r
				Fungicide,	,
O	771 155			Insecticide	
Coconut oil soap	NA 199	NA 391	2088	Adjuvant,	Soap
				Insecticide,	
DEA-dodecyl benzene	26545-53-9	70015	0100	Soap/Surfactant	
sulfonate	20343-33-9	79015	3123	Microbiocide,	Soap
·				Adjuvant,	
				Fungicide, Insecticide	
Diethylamine salt of coconut	NA 210	NA 402	1066	Adjuvant,	C
fatty acid		141.102	1000	Soap/Surfactant	Soap
Diisopropylamine dodecyl	29061-61-8	NA 327	3156	Microbiocide,	Soap
benzene sulfonate				Adjuvant,	Боар
				Fungicide,	
				Insecticide	
Dimethylalmine propylamine	NA 953	NA 318	3162	Microbiocide,	Soap
tridecyl benzene sulfonate				Adjuvant,	•
				Fungicide,	
Dimethylamine dodecyl	NIA 054	271.004		Insecticide	
benzene sulfonate	NA 954	NA 324	3161	Microbiocide,	Soap
benzene surionate		İ		Adjuvant,	
				Fungicide,	
Disodium 2,2'-oxybis(4-	5136-51-6	79003	3175	Insecticide	
dodecylbenzene)sulfonate	3130-31-0	79003	31/3	Microbiocide, Adjuvant,	Soap
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Fungicide,	
		į		Insecticide	
Disodium 4-dodecyl-2,4'-	7575-62-4	79002	3172	Microbiocide,	Soap
oxydibenzene sulfonate				Adjuvant,	Juap
				Fungicide,	
				Insecticide	
Dodecyl alkyl sulfonate	NA 284	NA 553	1599	Adjuvant	Soap
Dodecylbenzene sulfonic acid	27176-87-0	98002	941	Adjuvant,	Soap
				Microbiocide,	-
Ethylana diamina 1 1 1	12062.25.2	371.555		Insecticide	
Ethylene diamine dodecyl benzene sulfonate	12068-06-3	NA 257	3200	Microbiocide,	Soap
oenzene suitonate		1		Adjuvant,	
		ľ		Fungicide,	
Fatty acid esters	NA 1358	NIA 102	NTA 100	Insecticide	
Tatty acid colors	14V 1220	NA 193	NA 192	Plant Growth	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Observation 1 CT
	31.5 1,441.004	Code	Code	Ose Type	Chemical Class
				Regulator, Insecticide, Adjuvant	
Free fatty acids and/or amine salts	84776-33-0	31801	1198	Herbicide, Deer Repellent, Fungicide, Insecticide	Soap
Hydrogenated wax, neutral wax and alkali soaps of fatty acids	NA 93	NA 187	1368	Adjuvant, Insecticide	Soap
Isopropylamine dodecylbenzene sulfonate	26264-05-1	79030	3247	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Lauryl sulfate salts	NA 937	NA 137	2637	Adjuvant, Insecticide, Microbiocide, Fungicide	Soap
Linear alkyl sulfonate, potassium salt	NA 283	NA 552	1836	Adjuvant	Soap
Magnesium lauryl sulfate	435950	79017	1718	Adjuvant, Insecticide, Microbiocide, Fungicide	Soap
Mannitan coconut oil ester	26545-55-0	NA 106	3680	Adjuvant, Soap/Surfactant	Soap
Monoethanolamine dodecyl benzene sulfonate	26545-53-9	79015	1890	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
N,N-dimethyl-1,3-propane diamine dodecyl benzene sulfonate	NA 950	NA 305	3168	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Naphthenic soap	61790-13-4	#####	1806	Adjuvant, Insecticide	Soap
Oleic acid, methyl ester	112-62-9	NA 5	2266	Adjuvant	Soap
Oleic acid, potassium salt Oleic and linoleic acid, mixed	143-18-0	79095	865	Adjuvant	Soap
potassium salts	NA 4	NA 6	1807	Adjuvant	Soap
Organic phosphate ester surfactant	NA 1	NA 1	2725	Soap/Surfactant , Adjuvant	Soap
Para-alkyl (C9-C13) benzene sulfonic acid, sodium salt	25155-30-0	79010	1739	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Phenyl 2-trimethylammonium ethanesulfonate methyl sulfate	22232-15-1	######	NA 125	Microbiocide, Adjuvant, Fungicide, Insecticide	Soap
Potash fish soap	68154-69-8	79040	496	Adjuvant, Insecticide	Soap
Potash soap	61790-44-1	#####	1596	Herbicide, Insecticide, Adjuvant	Soap
Potassium alkyl benzene sulfonates	27177-77-1	79008	994	Microbiocide, Adjuvant,	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		
				Fungicide, Insecticide	
Potassium dodecylbenzene	27177-77-1	79008	1027	Microbiocide,	Soap
sulfonate			1	Adjuvant,	-
				Fungicide,	
Data da la constante de la con	10104 65 0	70001		Insecticide	
Potassium laurate	10124-65-9	79021	901	Adjuvant,	Soap
		ł		Insecticide,	
				Microbiocide, Fungicide,	
				Soap/Surfactant	
Potassium laurate and myristate	NA 999	NA 780	2825	Adjuvant,	Soap
soaps				Insecticide,	Боар
_				Microbiocide,	
,		•		Fungicide	
Potassium laurate, other related	NA 1125	NA 166	90901	Adjuvant,	Soap
				Insecticide,	•
				Microbiocide,	
				Fungicide	
Potassium lauryl sulfate	4706-78-9	NA 781	3353	Adjuvant	Soap
Potassium myristate	13429-27-1	79022	902	Adjuvant	Soap
Potassium soap of coconut	10124-65-9	79021	903	Adjuvant,	Soap
fatty acid				Insecticide,	
				Microbiocide,	
				Fungicide,	
Potassium soap of tall oil fatty	10124-65-9	79021	1409	Soap/Surfactant Adjuvant,	
acid	10124-03-5	75021	1409	Insecticide,	Soap
			,	Fungicide,	
				Microbiocide	
Potassium stearate	593-29-3	NA 784	3361	Adjuvant	Soap
Shampoo base	NA 460	NA 822	3795	Adjuvant	Soap
Soap	68952-95-4	79009	772	Microbiocide,	Soap
				Insecticide,	
				Deer Repellent	
Sodium alkyl* benzene	26856-61-1	79087	NA 760	Microbiocide,	Soap
sulfonate *(100% C9)				Adjuvant,	•
				Fungicide,	
Sodium benzene sulfonate	515 42 4	ATA 100	074	Insecticide	
Sodium benzene suttonate	515-42-4	NA 109	974	Microbiocide,	Soap
				Adjuvant, Fungicide,	
				Insecticide	
Sodium decyl benzene	1322-98-1	79088	3394	Microbiocide,	Soap
sulfonate				Adjuvant,	Doap
				Fungicide,	
				Insecticide	
Sodium di (1-alkenyl) phenoxy benzene disulfonate	39354-74-0	79060	1373	Adjuvant	Soap
Sodium dodecylbenzene	25155-30-0	79010	774	Microbiocide,	Soap
sulfonate				Adjuvant,	<b>F</b>
				Fungicide,	
				Insecticide	
Sodium laurate	629-25-4	79026	NA 732	Adjuvant,	Soap
				Insecticide,	-
		İ		Microbiocide,	
L				Fungicide	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	<u>Code</u>		
Sodium lauryl ether diglycol sulfate	NA 1471	NA 219	NA 218	Adjuvant	Soap
Sodium lauryl ether sulfate	9004-82-4	79054	3799	Adjuvant,	Soap
				Insecticide,	
		1		Microbiocide,	
				Fungicide,	
Sodium lauryl sulfate	151-21-3	79011	907	Soap/Surfactant Adjuvant,	Com
		""	, , ,	Insecticide,	Soap
				Microbiocide,	
				Fungicide	
Sodium methylundecyl	27987-00-4	79053	NA 742	Microbiocide,	Soap .
benzenesulfonate				Adjuvant,	
				Fungicide,	
Sodium mono (1-alkenyl)	39354-74-0	79060	1372	Insecticide Adjuvant	
phenoxy benzene disulfonate	, 5555.,,0	/3000	13/2	Aujuvani	Soap
Sodium n-decyl sulfate	142-87-0	79077	NA 754	Adjuvant	Soap ·
Sodium N-methyl-N-oleyl	NA 1004	NA 854	3419	Adjuvant,	Soap
laurate				Insecticide,	
				Microbiocide,	
Sodium nonanoyloxybenzene	91129-43-8	89053	5127	Fungicide	
sulfonate	91129-43-6	89053	5137	Microbiocide,	Soap
1				Adjuvant, Fungicide,	
				Insecticide	
Sodium octylbenzene sulfonate	28675-11-8	79057	NA 745	Microbiocide,	Soap
				Adjuvant,	
				Fungicide,	
Sodium tallow soap	NA 473	NA 870	2000	Insecticide	
	NA 473	NA 670	3802	Adjuvant, Insecticide	Soap
Sodium tetradecyl sulfate	1191-50-0	NA 110	3446	Adjuvant	Soap
Sodium tridecylbenzene	26248-24-8	79072	NA 752	Microbiocide,	Soap
sulfonate				Adjuvant,	
1				Fungicide,	
Sodium triisopropyl	1323-19-9	NA 872	2440	Insecticide	
naphthalene sulfonate	1323-19-9	NA 8/2	3448	Insecticide, Fungicide,	Soap
				Microbiocide,	
				Adjuvant	
Sodium triphenyl benzene	NA 1006	NA 873	3449	Microbiocide,	Soap
sulfonate				Adjuvant,	•
İ				Fungicide,	
Sodium xylene sulfonate	1300-72-7	79019	909	Insecticide	
Sodium-1-octane sulfonate	5324-84-5	NA 859	3886	Adjuvant Adjuvant	Soap
Soybean fatty acids, tert amine	NA 480	NA 884	1308	Adjuvant	Soap
salt		141001	1500	Adjuvant	Soap
Strontium dodecyl benzene	12068-15-4	NA 906	3456	Microbiocide,	Soap
sulfonate	ļ			Adjuvant,	•
	ľ	İ	l	Fungicide,	
Sulfonated petroleum soap	61789-62-6	79012	NA 729	Insecticide	
	01/05-02-0	73012	INA 129	Adjuvant, Insecticide	Soap
Sulfuric acid, monododecyl	151-21-3	79011	2901	Adjuvant,	Soap

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	OSC TYPE	Chemical Class
ester sodium salt				Insecticide,	
		ļ	1	Microbiocide,	
				Fungicide	
Surfactant blend	NA 1515	NA 223	NA 222	Soap/Surfactant	Soap
				, Adjuvant	•
Surfactant mixture	NA 1516	NA 223	NA 223	Soap/Surfactant	Soap
				, Adjuvant	
Tallow soap	NA 607	NA 110	1499	Adjuvant,	Soap
Triethanolamine	07202 41 5	50000		Insecticide	
dodecylbenzene sulfonate	27323-41-7	79020	984	Microbiocide,	Soap
dodecyroenzene sunonate				Adjuvant,	
·				Fungicide, Insecticide	
Zinc dodecyl benzene sulfonate	12068-16-5	NA 112	3508	Microbiocide,	Con Torri CC
	12000-10-3	102 112	3300	Adjuvant,	Soap, Inorganic-Zinc
				Fungicide,	
				Insecticide	
Cane syrup	NA 228	NA 441	3598	N/A	Carbohydrate
Complex carbohydrate polymer	NA 834	NA 154	4027	Adjuvant	Carbohydrate
derivative					Carbonyman
Corn syrup	NA 580	NA 105	3628	Bait	Carbohydrate
Cornstarch	NA 800	NA 148	3627	N/A	Carbohydrate
Dextrose	50-99-7	NA 360	3129	N/A	Carbohydrate
Fructose	7660-25-5	NA 177	5742	N/A	Carbohydrate
Honey	NA 734	NA 134	2595	N/A	Carbohydrate
Invert sugar	8013-17-0	NA 171	3672	Bait	Carbohydrate
Invert syrup	NA 941	NA 172	3673	Bait	Carbohydrate
Lactose	63-42-3	NA 141	1400	N/A	Carbohydrate
Malt extract	8002-48-0	NA 134	2659	N/A	Carbohydrate
Molasses	NA 40	NA 69	744	Bait	Carbohydrate
Polysaccharide polymer	NA 702	NA 129	2112	Adjuvant	Carbohydrate
Sorbitol	50-70-4	NA 214	1629	N/A	Carbohydrate
Starch	9005-84-9	NA 898	1821	N/A	Carbohydrate
Starch-G-poly (acrylamide-co-	NA 494	NA 899	2888	N/A	Carbohydrate
sodium acrylate)				- "	Curtonyurate
Sugar	57-50-1	23	708	Bait	Carbohydrate
Sweet n' neat 45 spray dried	NA 634	NA 116	3565	N/A	Carbohydrate
honey powder					,
Validamycin	37248-47-8	NA 190	NA 189	Fungicide	Carbohydrate
alpha-Cellulose	NA 1537	NA 225	NA 224	Insecticide	Cellulose derivative
Carbo methoxy ether cellulose,	9004-32-4	<del>#####</del>	2446	Insecticide	Cellulose derivative
sodium salt	0004 5 1 5				
Cellulose	9004-34-6	NA 432	3100	N/A	Cellulose derivative
Cellulose ethyl hydroxy ethyl	9004-58-4	NA 113	3101	N/A	Cellulose derivative
ether Ethyl cellulose	0004 57 3	374.064			
	9004-57-3	NA 264	3652	N/A	Cellulose derivative
Hydroxyethyl cellulose	9004-62-0	46201	1511	N/A	Cellulose derivative
Hydroxypropyl methyl cellulose	9004-65-3	NA 179	1969	N/A	Cellulose derivative
Methyl cellulose	9004-67-5	NA 85	1205	N/A	Cellulose derivative
Microcrystalline cellulose	9004-34-6	NA 63	2686	N/A	Cellulose derivative
Nitrocellulose	9004-70-0	99601	NA 867	N/A	Cellulose derivative
(2-	41289-08-1	######	NA 101	N/A	Unclassified
chloroethyl)methylbis(phenylm ethoxy)silane					

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		<u>Code</u>	Code		0.000
1% verde green solution	NA 553	NA 100	2982	Dye	Unclassified
1,2-dimethyl hydrazine	540-73-0	NA 142	3165	N/A	Unclassified
1,2-epoxy butane	106-88-7	NA 142	3190	N/A	Unclassified
1,3-butadiene	106-99-0	NA 471	2431	N/A	Unclassified
1-((4-methyl-2-nitrophenyl)	NA 43	NA 80	2682	N/A	Unclassified
azo) naphthalenol					
1-methyl pyrrolidine	120-94-5	NA 75	3287	N/A	Unclassified
1-Pentanethiol	110-66-7	#####	NA 872	N/A	Unclassified
2,2'-octadecyl imino diethanol	10213-78-2	NA 20	3306	N/A	Unclassified
2,2'-oxybis (4,4,6-trimethyl-	14697-50-8	12402	792	Microbiocide	Unclassified
1,3,2-dioxaborinane)					
2-butanone oxime	96-29-7	NA 474	3071	N/A	Unclassified
2-chloropyridine-N-oxide	NA 219	NA 417	2466	N/A	Unclassified
2-ethyl hexanoic acid	149-57-5	#####	3228	N/A	Unclassified
2-ethyl hexyl acrylate	103-11-7	NA 252	2115	N/A	Unclassified
2-heptanone	110-43-0	NA 206	3223	N/A	Unclassified
2-hydroxy-4-n-octyl	NA 572	NA 103	2608	N/A	Unclassified
benzophenone					
2-mercapto pyridine	2637-34-5	NA 94	2671	N/A	Unclassified
2-nitro-1-butyl phosphate	57249-19-1	56902	2033	N/A	Unclassified
2-Nitropropane	79-46-9	#####	3301	Impurity	Unclassified
3',6'-Dihydro-2',4',5',7'-	15905-32-5	· #####	NA 981	Dye	Unclassified
tetraiodospiro(isobenzofuran-				,	
1(3H),9'-(9H)xanthen)-3-one	100 00 0				
4-hydroxydiphenylamine	122-37-2	NA 217	NA 217	Breakdown	Unclassified
5-methyl-2-hexanone	110-12-3	NTA 01	2000	product	
Acetaldehyde	75-07-0	NA 81 #####	3230	N/A	Unclassified
Acetic anhydride	108-24-7		3012	N/A	Unclassified
Acetone	67-64-1	44007 44101	3014	N/A	Unclassified
Acetonitrile	75-05-8	NA 699	747	Solvent	Unclassified
Acetophenone	98-86-2	######	3015	Solvent	Unclassified
Acid blue 182	NA 599	NA 108	2074	. N/A	Unclassified
Acid blue 7	NA 385	NA 702	2353	Dye	Unclassified
Acid blue 9, diammonium salt	2650-18-2	#####	2352	Dye	Unclassified
Acid blue 9, disodium salt	3844-45-9	#####	2154	Herbicide, Dye	Unclassified
Acid yellow 23	1934-21-0	#####	3562	Herbicide, Dye	Unclassified
Acridinic bases	NA 1356	NA 193	2155	Herbicide, Dye	Unclassified
Acrylic acid	79-10-7		NA 192	Repellent	Unclassified
AD-67	NA 1378	NA 129 NA 195	2118	N/A	Unclassified
1	117.1376	1VA 193	NA 194	Herbicide	Unclassified
Adjuvants	NA 1484	NA 221	NA 220	Safener Adjuvant	I In also side at
Agent 1059-106	NA 388	NA 708	2357	N/A	Unclassified
Agent 1059-108	NA 600	NA 108	2358	N/A N/A	Unclassified
Agent 1315-33A	NA 389	NA 709	3881	N/A N/A	Unclassified
Agent 1315-33N	NA 390	NA 710	3879	N/A N/A	Unclassified
Agent 1594-9	NA 654	NA 120	3880	N/A N/A	Unclassified
Agent 551-85	NA 387	NA 707	2356	N/A N/A	Unclassified
Agent W-218	NA 391	NA 711	2359		Unclassified
Aldehyde C10	112-31-2	#####	NA 107	N/A	Unclassified
Aldehyde C11	112-44-7	#####	NA 107	N/A	Unclassified
Aldehyde C12	112-54-9	#####		N/A	Unclassified
Aldehyde C6	66-25-1	#####	NA 107	N/A	Unclassified
Aldehyde C8	124-13-0	#####	NA 107 NA 107	N/A	Unclassified
		понт	14A 107	N/A	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Cl 1 Cl
	2232 2 (44400)	Code	Code	Ose Type	Chemical Class
Aldimorph	NA 1340	NA 188	NA 187	Fungicide	Unclassified
Aliphatic amines	NA 713	NA 130	2362	N/A	Unclassified
Alkanol XC	NA 828	NA 152	3931	Adjuvant	Unclassified
Alkatronic PGP-33-4	NA 395	NA 717	2363	N/A	Unclassified
Alkyl (C9H12) benzenes	NA 310	NA 589	2371	Solvent	Unclassified
Amine 220	21652-27-7	NA 141	3033	N/A	Unclassified
Amines, aliphatic	NA 277	NA 543	1747	N/A	Unclassified
Amino acids	NA 1359	NA 193	NA 192	Plant Growth	Unclassified
				Regulator	Onciassified
Ammonium propionate	NA 1061	NA 158	5015	Microbiocide,	Unclassified
				Preservative	
Amsco-solv	NA 271	NA 526	2386	Solvent	Unclassified
Amygdalinic acid diethyl amide	NA 1448	NA 215	NA 214	Insect	Unclassified
Amyl acetate	600 60 5			Repellent	
Aniline	628-63-7	169	1889	N/A	Unclassified
Anionic wax emulsion	62-53-3	#####	3056	N/A	Unclassified
Anionic wax emulsion  Anionic wax emulsion	61789-97-7	NA 515	3818	N/A	Unclassified
Aquashade	NA 892	NA 171	3848	N/A	Unclassified
Armul 1426	92170-50-8	#####	NA 909	Herbicide, Dye	Unclassified
Armul 1426 HF	NA 267	NA 522	3878	N/A	Unclassified
Armul 1427	NA 822	NA 151	3877	N/A	Unclassified
Armul 1427 HF	NA 268	NA 523	3883	N/A	Unclassified
Armul 214/215	NA 589	NA 106	3876	N/A	Unclassified
Armul 22	NA 265	NA 520	2391	N/A	Unclassified
Armul 33	NA 263	NA 518	2389	N/A	Unclassified
Armul 358	NA 587	NA 106	2390	N/A	Unclassified
Armul 646	NA 266	NA 521	2392	N/A	Unclassified
Armul 88	NA 588	NA 106	2393	N/A	Unclassified
Artificial peanut butter flavor	NA 264 NA 717	NA 519	3908	N/A	Unclassified
wl-5344	NA /1/	NA 131	2397	N/A	Unclassified
Astrazon yellow 4g200	NA 258	NA 511	2399	Dye	TI1i-C 1
Atlox 1045A	61723-83-9	NA 152	3911	N/A	Unclassified
Atplus 300F	NA 255	NA 507	3916	N/A	Unclassified
b-Bromo-b-nitrostyrene	7166-19-0	NA 221	NA 221	Microbiocide	Unclassified Unclassified
Barochem B464	NA 247	NA 499	2413	N/A	
Basic violet 1	8004-87-3	39503	3584	Dye	Unclassified
ВСР	NA 237	NA 465	64	N/A	Unclassified Unclassified
Be-4526 phthalo blue lake r-c	NA 244	NA 488	3518	Dye	Unclassified
Benfuresate	68505-69-1	NA 187	NA 187	Herbicide	Unclassified
Bensultap	17606-31-4	NA 185	NA 185	Insecticide	Unclassified
Benzene sulfonyl chloride	98-09-9	NA 489	2415	N/A	Unclassified
Benzfendizone	158755-95-4	NA 230	NA 230	Herbicide	Unclassified
Benzobicyclon	156963-66-5	NA 230	NA 230	Herbicide	Unclassified
Benzofenap	82692-44-2	NA 211	NA 211	Herbicide	Unclassified
Benzophenone-2	131-55-5	NA 492	3063	N/A	Unclassified
Benzophenone-3	119-61-9	315	2417	N/A	Unclassified
Benzyl chloride	100-44-7	NA 486	2419	N/A	Unclassified
Berol 927	NA 894	NA 171	3874	N/A	Unclassified
Berol 968	NA 893	NA 171	3873	N/A	Unclassified
Bethoxazin	163269-30-5	NA 230	NA 230	Herbicide	Unclassified
ВНА	25013-16-5	NA 484	2420	N/A	Unclassified
Bicyclic and methene resins	NA 242	NA 485	3516	N/A	Unclassified
				-1/42	Onciassined

Chemical Name	CAS Number	U.S. EPA PC	CA Char	I I I I I	
	3220 2 (12200)	Code	Code	Use Type	Chemical Class
Bioban p-1487	37304-88-4	#####	1742	Microbiocide	Unclassified
Biphenyl	92-52-4	17002	227	Microbiocide,	Unclassified
				Fungicide	Onciassined
Bisphenol A	80-05-7	NA 482	3070	N/A	Unclassified
Bisphenol F	205672	NA 216	NA 215	N/A	Unclassified
Bispyribac	125401-75-4	NA 203	NA 203	Herbicide	Unclassified
Bisthiosemi	39603-48-0	NA 206	NA 206	Rodenticide	Unclassified
Block polymer of	NA 850	NA 158	5011	N/A	Unclassified
carbonyldiamide					Cholassifica
polyoxyalkylated glycol adduct		<u> </u>			
Brandol	NA 1379	NA 195	NA 194	Fungicide	Unclassified
Bromoacetic acid	79-08-3	8702	NA 102	N/A	Unclassified
Burgundy mixture	NA 1380	NA 195	NA 194	Fungicide	Unclassified
Busan 1009	NA 1564	NA 227	NA 227	Fungicide	Unclassified
Butadiene-acrylonitrile copolymer	9003-18-3	NA 472	2432	N/A	Unclassified
Butane	106.07.0				
Buthiobate	106-97-8 51308-54-4	NA 473	1562	N/A	Unclassified
Butyl mercaptan		NA 206	NA 206	Fungicide	Unclassified
Butyl mercapian	109-79-5	#####	5087	Deer Repellent,	Unclassified
C-PA-1224 black	NA 191	NIA 270 :	0.100	Bear Repellent	
Calcium propionate	4075-81-4	NA 379	2483	N/A	Unclassified
Cambendichlor	56141-00-5	77701	2441	Preservative	Unclassified
Capric acid	334-48-5	NA 230	NA 230	Herbicide	Unclassified
Caprylic acid	124-07-2	#####	2315	Microbiocide	Unclassified
Caramel color	NA 720	#####	2316	Microbiocide	Unclassified
Carfentrazone	128621-72-7	NA 131	2444	Dye	Unclassified
Carfentrazone-ethyl	128639-02-1	NA 210	NA 210	Herbicide	Unclassified
Carpropamid	104030-54-8	##### NIA 202	5130	Herbicide	Unclassified
Cartap	15263-53-3	NA 203	NA 203	Fungicide	Unclassified
Cartap hydrochloride	22042-59-7	NA 181 NA 182	NA 181	Insecticide	Unclassified
(unspecified hydrochloride)	22042-39-7	NA 182	NA 181	Insecticide	Unclassified
Cartap monohydrochloride	15263-52-2	NA 182	NA 181	Torrestin	
Cetiol HE	66105-29-1	#####	NA 871	Insecticide	Unclassified
CGA-154281	NA 721	NA 132	2451	Insecticide	Unclassified
Chartersol-1	NA 221	NA 428	2453	N/A Solvent	Unclassified
Chem-o-thane D-3860/D-3861	NA 223	NA 430	2454		Unclassified
. Chicago sludge	68188-15-8	NA 147	3605	N/A N/A	Unclassified
Chloracetic acid	79-11-8	#####	3102	N/A	Unclassified
Chloral-bis-acylal	NA 1344	NA 191	NA 191	Plant Growth	Unclassified
			142171	Regulator	Unclassified
Chloral-semi-acetal	NA 1345	NA 191	NA 191	Herbicide	Unclassified
Chloretazate	NA 1403	NA 197	NA 196	Plant Growth	Unclassified
				Regulator	Onciassified
Chlorfenprop	59404-06-7	NA 181	NA 180	Herbicide	Unclassified
Chlorfenprop-methyl	14437-17-3	#####	NA 156	Herbicide	Unclassified
Chlorinated rubber	2594016	NA 427	3606	N/A	Unclassified
Chlormethiuron	28217-97-2	NA 206	NA 206	Insecticide	Unclassified
Chlorobenzene	108-90-7	56504	2460	N/A	Unclassified
Choline chloride	67-48-1	NA 191	NA 190	Rodenticide	Unclassified
Cinidon-ethyl	142891-20-1		NA 215	Herbicide	Unclassified
Citowett	NA 218	NA 412		Soap/Surfactant	Unclassified
Cloquintocet	88349-88-6	NA 219	NA 218	Herbicide	Unclassified
				Safener	0.101000111001

Cloquintocet mexyl   99607-70-2   NA 191   NA 190   Herbicide Safener   Unclassified   Cloxyfonac   32791-87-0   NA 204   NA 203   Plant Growth Regulator   Unclassified   Collagen   NA 202   NA 393   2476   N/A   Unclassified   Collagen   NA 203   NA 394   1805   N/A   Unclassified   Collagen   NA 203   NA 394   1805   N/A   Unclassified   Colloid 643   NA 582   NA 105   2477   N/A   Unclassified   Colloid 840   NA 791   NA 146   3527   N/A   Unclassified   Colloid 840   NA 791   NA 146   3527   N/A   Unclassified   Credazine   14491-59-9   NA 207   NA 206   Herbicide   Unclassified   Cubiet   NA 1367   NA 193   NA 193   Pungicide, Pruning Aid   Cyclopentadiene polymer   NA 1450   NA 215   NA 214   Insecticide   Unclassified   Cymoetrinil   63278-33-1   NA 207   NA 206   Herbicide   Unclassified   Cymoetrinil   63278-33-1   NA 207   NA 206   Herbicide   Unclassified   Cymoetrinil   63278-33-1   NA 207   NA 206   Herbicide   Unclassified   Unclassified   Cymoetrinil   63278-33-1   NA 207   NA 206   Herbicide   Unclassified   Unclassified   Unclassified   Unclassified   D& C red no. 37   1632455   NA 117   3634   Dye   Unclassified   D& C yellow 10 lake   68814-04-0   NA 365   2487   Dye   Unclassified   D-425   NA 183   NA 366   2488   Solvent   Unclassified   D-79 solvent   NA 183   NA 366   2488   Solvent   Unclassified   D-79 solvent   NA 183   NA 366   2488   Solvent   Unclassified   D-79 solvent   NA 185   NA 368   2491   N/A   Unclassified   D-79 solvent   NA 185   NA 368   2491   N/A   Unclassified   D-79 solvent   NA 185   NA 368   2491   N/A   Unclassified   D-79 solvent   NA 185   NA 367   2494   N/A   Unclassified   D-79 solvent   NA 185   NA 367   2494   N/A   Unclassified   D-79 solvent   NA 185   NA 367   2494   N/A   Unclassified   D-79 solvent   NA 185   NA 367   2494   N/A   Unclassified   D-79 solvent   NA 1503   NA 222   NA 222   Algaecide, Microbiocide, Molluscicide   D-79 solvent   NA 1501   NA 222   NA 222   Algaecide, Microbiocide, Molluscicide   D-79 solvent   NA 1501   NA 222   NA 221	Chemical Name	CAS Numbe	T U.S. EPA PC	CA Chem	Use Type	Chamical Class
Cloquintocet mexyl		<u> </u>			Ose Type	Chemical Class
Cloxyfonac   32791-87-0   NA 204   NA 203   Plant Growth Regulator	Cloquintocet mexyl	99607-70-2				Unclassified
Colgate crystal white hand dishwashing liquid   Collagen   NA 203   NA 394   1805   N/A   Unclassified   Colloid 643   NA 582   NA 105   2477   N/A   Unclassified   Colloid 840   NA 791   NA 146   3527   N/A   Unclassified   Cookies   NA 641   NA 117   3621   Bait   Unclassified   Credazine   14491-59-9   NA 207   NA 206   Herbicide   Unclassified   Cubiet   NA 1367   NA 193   NA 193   Fungicide, Unclassified   Cyclohexanone   108-94-1   25902   177   Solvent   Unclassified   Cyclopentadiene polymer   NA 1450   NA 215   NA 214   Insecticide   Unclassified   Cymiazol hydrochloride   61676-87-7   NA 215   NA 214   Insecticide   Unclassified   Cymoxanil   57966-95-7   ####   4002   Fungicide   Unclassified   Unclassified   Cymoxanil   57966-95-7   ####   4002   Fungicide   Unclassified   Unclassified   Cyclopentadiene polymer   NA 190   NA 207   NA 206   Herbicide   Unclassified   Cymoxanil   57966-95-7   ####   4002   Fungicide   Unclassified   Unclass			NA 204	NA 203	Plant Growth	Unclassified
Colloid 643	dishwashing liquid		NA 393	2476	N/A	Unclassified
Colloid 840			NA 394	1805	N/A	Unclassified
Cookies				2477	N/A	Unclassified
Credazine					N/A	Unclassified
Cubiet				3621	Bait	Unclassified
Cyclohexanone   108-94-1   25902   177   Solvent   Unclassified   Cyclopentadiene polymer   NA 1450   NA 215   NA 214   Insecticide   Unclassified   Cymiazol hydrochloride   61676-87-7   NA 215   NA 214   Insecticide   Unclassified   Cymoxanil   57966-95-7   #####   4002   Fungicide   Unclassified   Cyometrinil   63278-33-1   NA 207   NA 206   Herbicide   Safener   Cysteine   52-90-4   NA 190   NA 190   Plant Growth   Unclassified   D & C red no. 28   18472-87-2   #####   3515   Dye   Unclassified   D & C red no. 37   1632455   NA 117   3634   Dye   Unclassified   D & C yellow 10 lake   68814-04-0   NA 365   2487   Dye   Unclassified   D & C yellow no. 8   NA 829   NA 152   3991   Dye   Unclassified   D-79 solvent   NA 184   NA 367   2489   N/A   Unclassified   D-79 solvent   NA 183   NA 366   2488   Solvent   Unclassified   Day-glo saturn yellow AX-17-   NA 186   NA 369   2492   Dye   Unclassified   Delete 65   NA 177   NA 367   2494   N/A   Unclassified   Delete 65   NA 177   NA 357   2494   N/A   Unclassified   Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required   Device, no guarantee required   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee   NA 1502   NA 222   NA 221   N/A	· · · · · · · · · · · · · · · · · · ·			NA 206	Herbicide	Unclassified
Cyclobexanone         108-94-1         25902         177         Solvent         Unclassified           Cyclopentadiene polymer         NA 1450         NA 215         NA 214         Insecticide         Unclassified           Cymiazol hydrochloride         61676-87-7         NA 215         NA 214         Insecticide         Unclassified           Cymoanil         57966-95-7         #####         4002         Fungicide         Unclassified           Cymoanil         63278-33-1         NA 207         NA 206         Herbicide         Safener           Cysteine         52-90-4         NA 190         NA 190         Plant Growth         Unclassified           D & C red no. 28         18472-87-2         #####         3515         Dye         Unclassified           D & C red no. 37         1632455         NA 117         3634         Dye         Unclassified           D & C yellow 10 lake         68814-04-0         NA 365         2487         Dye         Unclassified           D & C yellow no. 8         NA 829         NA 152         3991         Dye         Unclassified           D-79 solvent         NA 183         NA 366         2488         Solvent         Unclassified           Day-glo saturn yellow AX-17-         NA 185		NA 1367	NA 193	NA 193		Unclassified
Cymiazol hydrochloride         61676-87-7         NA 215         NA 214         Insecticide         Unclassified           Cymoxanil         57966-95-7         #####         4002         Fungicide         Unclassified           Cyometrinil         63278-33-1         NA 207         NA 206         Herbicide Safener         Unclassified           Cysteine         52-90-4         NA 190         NA 190         Plant Growth Regulator         Unclassified           D & C red no. 28         18472-87-2         #####         3515         Dye         Unclassified           D & C red no. 37         1632455         NA 117         3634         Dye         Unclassified           D & C yellow 10 lake         68814-04-0         NA 365         2487         Dye         Unclassified           D & C yellow no. 8         NA 829         NA 152         3991         Dye         Unclassified           D-79 solvent         NA 184         NA 367         2489         N/A         Unclassified           Day-glo saturn yellow AX-17-NA 185         NA 368         2491         N/A         Unclassified           Delvet 65         NA 177         NA 357         2494         N/A         Unclassified           Device (swimming pool algaecide, bacteriacide, molluscicide)				177	Solvent	Unclassified
Cymoxanil         57966-95-7         ######         4002         Fungicide         Unclassified           Cyometrinil         63278-33-1         NA 207         NA 206         Herbicide Safener         Unclassified           Cysteine         52-90-4         NA 190         NA 190         Plant Growth Regulator         Unclassified           D & C red no. 28         18472-87-2         #####         3515         Dye         Unclassified           D & C red no. 37         1632455         NA 117         3634         Dye         Unclassified           D & C yellow 10 lake         68814-04-0         NA 365         2487         Dye         Unclassified           D & C yellow no. 8         NA 829         NA 152         3991         Dye         Unclassified           D-425         NA 184         NA 367         2489         N/A         Unclassified           D-79 solvent         NA 183         NA 366         2488         Solvent         Unclassified           Day-glo saturn yellow AX-17-NA 186         NA 369         2492         Dye         Unclassified           Device (55         NA 1459         NA 216         NA 216         N/A         Unclassified           Device (swimming pool algaecide, bacteriacide, molluscicide)         NA 15				NA 214	Insecticide	Unclassified
Cyometrinil   63278-33-1		e 61676-87-7		NA 214	Insecticide	Unclassified
Cysteine   52-90-4   NA 190   NA 190   Plant Growth Regulator				4002	Fungicide	Unclassified
Regulator   D & C red no. 28   18472-87-2   #####   3515   Dye   Unclassified   D & C red no. 37   1632455   NA 117   3634   Dye   Unclassified   D & C yellow 10 lake   68814-04-0   NA 365   2487   Dye   Unclassified   D & C yellow no. 8   NA 829   NA 152   3991   Dye   Unclassified   D-425   NA 184   NA 367   2489   N/A   Unclassified   D-79 solvent   NA 183   NA 366   2488   Solvent   Unclassified   Daxad 23   NA 185   NA 368   2491   N/A   Unclassified   Day-glo saturn yellow AX-17-   NA 186   NA 369   2492   Dye   Unclassified   De-570   NA 1459   NA 216   NA 216   N/A   Unclassified   Desoto urethane resin   NA 179   NA 357   2494   N/A   Unclassified   Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   Unclassified   Device, no guarantee required   NA 1502   NA 222   NA 221   N/A   Unclassified   U		63278-33-1	NA 207	NA 206	1	Unclassified
D & C red no. 28         18472-87-2         #####         3515         Dye         Unclassified           D & C red no. 37         1632455         NA 117         3634         Dye         Unclassified           D & C yellow 10 lake         68814-04-0         NA 365         2487         Dye         Unclassified           D & C yellow no. 8         NA 829         NA 152         3991         Dye         Unclassified           D-425         NA 184         NA 367         2489         N/A         Unclassified           D-79 solvent         NA 183         NA 366         2488         Solvent         Unclassified           Daxad 23         NA 185         NA 368         2491         N/A         Unclassified           Day-glo saturn yellow AX-17- NA 186         NA 186         NA 369         2492         Dye         Unclassified           Debect 65         NA 1459         NA 216         N/A         Unclassified           Desoto urethane resin         NA 177         NA 357         2494         N/A         Unclassified           Device (swimming pool algaecide, bacteriacide, molluscicide)         NA 1503         NA 222         NA 222         Algaecide, Molluscicide         Unclassified           Device, no guarantee required				NA 190		Unclassified
D & C red no. 37  1632455  NA 117  3634  Dye  Unclassified  D & C yellow 10 lake  B NA 829  NA 152  D & C yellow no. 8  NA 829  NA 152  D ye  Unclassified  D-425  NA 184  NA 367  D-79 solvent  NA 183  NA 366  D ye  Unclassified  D-79 solvent  NA 183  NA 366  D ye  Unclassified  D-79 solvent  NA 183  NA 366  D ye  Unclassified  NA 183  NA 366  D ye  Unclassified  Unclassified  D ye  Unclassified  NA 185  NA 368  D ye  Unclassified  Unclassified  NA 185  NA 368  D ye  Unclassified  NA 185  NA 368  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 369  D ye  Unclassified  NA 186  NA 216  NA 216  NA 216  NA 216  NA 216  NA 216  NA 216  D ye  Unclassified  NA 177  NA 357  D ye  Unclassified  NA 179  NA 359  D ye  Unclassified  NA 179  NA 359  A 177  NA 357  A 178  D ye  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  NA 1503  NA 222  NA 222  NA 222  A 1 2 2 3 3 3 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4		18472-87-2	#####	3515		Unclassified
D & C yellow no. 8  NA 829  NA 152  3991  Dye  Unclassified  D-425  NA 184  NA 367  2489  N/A  Unclassified  D-79 solvent  NA 183  NA 366  2488  Solvent  Unclassified  Daxad 23  NA 185  NA 368  2491  N/A  Unclassified  Day-glo saturn yellow AX-17-  NA 186  NA 369  DE-570  NA 1459  NA 216  NA 216  NA 216  NA 216  NA 216  NA 216  NA 216  NA Unclassified  NA 177  NA 357  2494  N/A  Unclassified  Desoto urethane resin  NA 179  NA 359  2497  N/A  Unclassified  NA 1503  NA 222  NA 222  Algaecide,  Microbiocide,  Microbiocide,  Microbiocide,  Molluscicide  Device, no guarantee required  NA 1502  NA 222  NA 221  N/A  Unclassified  Unclassified  NA 1503  NA 222  NA 221  N/A  Unclassified				3634	Dye	
D-425 NA 184 NA 367 2489 N/A Unclassified D-79 solvent NA 183 NA 366 2488 Solvent Unclassified Daxad 23 NA 185 NA 368 2491 N/A Unclassified Day-glo saturn yellow AX-17- NA 186 NA 369 2492 Dye Unclassified  DE-570 NA 1459 NA 216 NA 216 N/A Unclassified Delvet 65 NA 177 NA 357 2494 N/A Unclassified Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified		68814-04-0	NA 365	2487	Dye	
D-79 solvent NA 183 NA 366 2488 Solvent Unclassified  Daxad 23 NA 185 NA 368 2491 N/A Unclassified  Day-glo saturn yellow AX-17- NA 186 NA 369 2492 Dye Unclassified  DE-570 NA 1459 NA 216 NA 216 N/A Unclassified  Delvet 65 NA 177 NA 357 2494 N/A Unclassified  Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified			NA 152	3991	Dye	Unclassified
Daxad 23  NA 185  NA 368  2491  N/A  Unclassified  Day-glo saturn yellow AX-17- NA 186  NA 369  DE-570  NA 1459  NA 216  NA 216  NA 216  NA Unclassified  NA 177  NA 357  Algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  NA 1502  NA 222  NA 221  NA 221  NA 221  NA 221  NA 221  NA Unclassified  Unclassified  Unclassified  Unclassified  Unclassified  Value  V			NA 367	2489	N/A	Unclassified
Day-glo saturn yellow AX-17- NA 186 NA 369 2492 Dye Unclassified  DE-570 NA 1459 NA 216 NA 216 N/A Unclassified  Delvet 65 NA 177 NA 357 2494 N/A Unclassified  Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified			NA 366	2488	Solvent	Unclassified
N  DE-570  NA 1459  NA 216  NA 222  NA 222  NA 221  NA 221  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 221  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA 222  NA				2491	N/A	Unclassified
Delvet 65 NA 177 NA 357 2494 N/A Unclassified  Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified	N		NA 369	2492	Dye	Unclassified
Desoto urethane resin NA 179 NA 359 2497 N/A Unclassified  Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required NA 1502 NA 222 NA 221 N/A Unclassified  NA 1502 NA 222 NA 221 N/A Unclassified			NA 216	NA 216	N/A	Unclassified
Device (swimming pool algaecide, bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  NA 1503  NA 222  NA 222  NA 222  Algaecide, Microbiocide, Molluscicide  Molluscicide  NA 1502  NA 222  NA 221  N/A  Unclassified				2494	N/A	Unclassified
algaecide,bacteriacide, molluscicide) no guarantee required  Device, no guarantee required  NA 1502  NA 222  NA 221  N/A  Unclassified			NA 359	2497	N/A	Unclassified
Did distinct	algaecide,bacteriacide, molluscicide) no guarantee required	ee			Microbiocide,	Unclassified
Di-I-p-menthene NA 1381 NA 195 NA 194 Plant Growth Unclassified						Unclassified
Regulator					Regulator	Unclassified
Diafenthiuron 80060-09-9 NA 186 NA 185 Insecticide Unclassified						Unclassified
Dichloro acetic acid 79-43-6 NA 105 3133 N/A Unclassified						
Dichlorovinyl acid NA 174 NA 347 2502 Breakdown Unclassified product				2502	1	Unclassified
Diclobutrazol 75736-33-3 NA 186 NA 185 Fungicide Unclassified						Unclassified
Diclomezine 62865-36-5 NA 204 NA 204 Fungicide Unclassified					Fungicide	
Dicyclanil 112636-83-6 NA 211 NA 211 Insect Growth Unclassified Regulator				NA 211		Unclassified
Dicyclopentadiene 77-73-6 NA 186 NA 185 Plant Growth Regulator, Dog and Cat Repellent			NA 186	NA 185	Plant Growth Regulator, Dog and Cat	Unclassified
Dicyclopentadiene linseed oil 68213-53-6 31612 NA 291 N/A Unclassified copolymer	copolymer	oil 68213-53-6	31612	NA 291		Unclassified
Diethyl phosphate 598-02-7 NA 180 NA 179 Breakdown Unclassified	Diethyl phosphate	598-02-7	NA 180	NA 179	Breakdown	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Ino Trees	Cl 1 Cl
	Orio Ivallioci	Code	Code	<u>Use Type</u>	Chemical Class
			Codo	product	
Diethyl sulfide	352-93-2	#####	5088	Bear Repellent	Unclassified
Diethyldithio phosphate	298-06-6	NA 180	NA 179	Breakdown	Unclassified
				product	Onciassined
Diethylthio phosphate	5871-17-0	NA 180	NA 179	Breakdown	Unclassified
		}		product	Onciassifica
Diisoamyl ketone	2050-99-9	NA 325	3155	Solvent	Unclassified
Diisobutyl ketone	108-83-8	44107	1946	Solvent	Unclassified
Dikegulac	18467-77-1	NA 181	NA 180	Herbicide	Unclassified
Dikegulac sodium	52508-35-7	######	2004	Plant Growth	Unclassified
				Regulator	
Dimer acid	6144-28-1	NA 330	3158	N/A	Unclassified
Dimethyl phosphate	813-78-5	NA 180	NA 179	Breakdown	Unclassified
D:1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				product	
Dimethyl sulfoxide	67-68-5	177	3169	Solvent	Unclassified
Dimethyldithio phosphate	756-80-9	NA 180	NA 180	Breakdown	Unclassified
Dimethylthio phosphate	NA 1339	NA 180	NIA 170	product	
Difficulty full opinosphale	IVA 1339	NA 180	NA 179	Breakdown	Unclassified
Dioxane	123-91-1	NA 300	2529	product Solvent,	77 1 10 1
	123-51-1	NA JOO	2329	Impurity	Unclassified
Diphenyl methane	101-81-5	NA 301	3171	N/A	Unclassified
Diphenylamine	122-39-4	38501	228	Fungicide,	Unclassified
			220	Plant Growth	Onciassined
				Regulator,	•
				Insecticide	
Dipropyl isocinchomerate	3737-22-2	NA 204	NA 204	Insect	Unclassified
<u> </u>				Repellent	
Dipropyl isocinchomeronate	136-45-8	47201	681	Insect	Unclassified
Dog or est salls	374 155	371.001		Repellent	
Dog or cat collars  Dow Corning FG-10	NA 155	NA 291	3645	N/A	Unclassified
Dowanol desg solvent	NA 147	NA 281	2541	N/A	Unclassified
Drewplus L-768	NA 725	NA 133	2538	Solvent	Unclassified
Dyestuffs  Dyestuffs	NA 148 NA 689	NA 283	2542	N/A	Unclassified
Emcol AL69-49	NA 726	NA 127	1913	Dye	Unclassified
Emphos CS-121	NA 727	NA 133	2544	N/A	Unclassified
Emulgator	NA 143	NA 133	2545	Soap/Surfactant	Unclassified
Emulsogen CP 136	NA 576	NA 277 NA 104	2546	N/A	Unclassified
Emulsogen NP 11-300	NA 144	NA 278	2547 2548	Adjuvant	Unclassified
Endothall	145-73-3	38901	5813	Adjuvant	Unclassified
	143473-3	30901	2012	Herbicide, Defoliant	Unclassified
Endothall, di (N,N-	NA 949	NA 271	1355	Herbicide,	Unclassified
diethylalkylamine) salt		-1	1555	Defoliant	Onclassined
Endothall, di (N,N-	66330-88-9	38905	1904	Herbicide,	Unclassified
dimethylalkylamine) salt				Defoliant	Chomosinou
Endothall, di(N,N-	2536-26-7	38902	NA 323	Herbicide,	Unclassified
dimethyltridecylamine) salt				Defoliant	
Endothall, diammonium salt	17439-94-0	38908	NA 326	Herbicide,	Unclassified
Endadell disco	016155			Defoliant	
Endothall, dipotassium salt	2164-07-0	38904	1356	Herbicide,	Unclassified
Endothall, disodium salt	120 67 0	20000		Defoliant	
Endoman, disodium salt	129-67-9	38903	260	Herbicide,	Unclassified
Endothall, mono (N,N-diethyl	NA 926	NA 4	1254	Defoliant	** * ***
	1111 920	IVA 4	1354	Herbicide,	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Charatter 1 CI
<u>Gardandar i tamio</u>	CABINAMOCI	Code	Code	Ose Type	Chemical Class
alkylamine) salt			Codo	Defoliant	
Endothall, mono N,N-	NA 929	NA 61	2056	Herbicide,	Unclassified
dimethyl alkylamine] salt				Defoliant	Onciassined
Endothall, mono(N,N-	2536-27-8	38906	NA 325	Herbicide,	Unclassified
dimethyltridecylamine) salt				Defoliant	011011100
Endothall, N,N-	NA 1282	38907	NA 174	Herbicide,	Unclassified
dimethylcocamine salt (1:2)				Algaecide	
Epoxidized linseed oil	2232670	NA 272	2550	Insecticide,	Unclassified
F	274 100	371 272		Adjuvant	
Epoxy resins Erythrosine B	NA 139	NA 269	3650	N/A	Unclassified
Elythosine B	16423-68-0	#####	2224	Dye,	Unclassified
Escorez 1102	9048-47-9	NA 146	3546	Insecticide	TT 1
Espesol I	NA 140	NA 270	2552	N/A Solvent	Unclassified
Etacelasil	37894-46-5	NA 188	NA 187	Defoliant, Plant	Unclassified
	3705-1-10-3	112 100	IVA 107	Growth	Unclassified
				Regulator	
Ethanethiol	75-08-1	NA 187	NA 186	Rodenticide	Unclassified
. Ethomeen	NA 136	NA 265	2553	N/A	Unclassified
Ethyl acrylate	140-88-5	NA 259	2117	N/A	Unclassified
Ethyl formate	109-94-4	43102	278	Fumigant,	Unclassified
				Insecticide	
Ethyl methacrylate	97-63-2	NA 248	3203	N/A	Unclassified
Ethylene-acrylic acid	9010-77-9	NA 253	3653	Adjuvant	Unclassified
copolymer					
Ethylene-acrylic terpolymer	NA 133	NA 254	1950	Adjuvant	Unclassified
Ethylhexanoate	123-66-0	NA 190	NA 190	Fungicide,	Unclassified
Extender	NA 1377	NIA 105	NTA 104	Microbiocide	
Fatty alcohols	NA 1364	NA 195 NA 193	NA 194	Synergist	Unclassified
Tatty alcohols	NA 1304	NA 193	NA 192	Plant Growth Regulator,	Unclassified
				Adjuvant	
FD&C blue no. 1 aluminum	53026-57-6	NA 242	3000	Dye	Unclassified
lake				Djo	Onciassified
FD&C green no. 3	NA 127	NA 243	2566	Dye	Unclassified
FD&C red no. 40	NA 947	#####	2567	Dye, Impurity	Unclassified
Feed supplements	NA 128	NA 244	3655	N/A	Unclassified
Fenchlorazole	103112-35-2	NA 181	NA 181	Herbicide	Unclassified
				Safener	
Fenchlorim	3740-92-9	NA 182	NA 181	Herbicide	Unclassified
Fenitropan	65024.05.4	N/A 007	374 007	Safener	
Fenniclonil	65934-95-4 74738-17-3	NA 207	NA 207	Fungicide	Unclassified
Fenpropidin		NA 188	NA 187	Fungicide	Unclassified
Fenpropimorph	67306-00-7	NA 184	NA 183	Fungicide	Unclassified
Fenpropimorph	67306-03-0 67564-91-4	##### NA 201	NA 988	Fungicide	Unclassified
Fenthiosulf	NA 1406	NA 201 NA 198	NA 200	Fungicide	Unclassified
Fertilizer, general	NA 729	NA 198 NA 133	NA 197	Insecticide	Unclassified
Filter paper e-d-601-25	NA 122	NA 133 NA 235	2569 3525	N/A N/A	Unclassified
Flomo 1212	NA 124	NA 233	2572		Unclassified
Flomo 4NP	NA 616	NA 112	2572	Soap/Surfactant	Unclassified
Florasulam	NA 1447	NA 214	NA 214	Soap/Surfactant	Unclassified
Flubenzimine (unstated	37893-02-0	NA 188	NA 187	Herbicide Insecticide	Unclassified
stereochemistry)	3,055-02-0	1424 100	1147 101	msecucide	Unclassified
Flumequine	42835-25-6	NA 188	NA 187	Microbiocide	Unclassified
	<del></del>				Cholassilled

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	I Ico Temo	(T: 1 (T)
	<u>JANG I (UMIOO)</u>	Code	Code	Use Type	Chemical Class
Flumiclorac	87547-04-4	NA 232	NA 232	Herbicide	Unclassified
Flumipropyn	84478-52-4	NA 229	NA 229	Herbicide	Unclassified
Flupropanate	756-09-2	NA 204	NA 204	Herbicide	
Flupropanate, sodium salt	22898-01-7	NA 211	NA 211	Herbicide	Unclassified
Flurazole	72850-64-7	NA 187	NA 186	Herbicide	Unclassified
	120000,	107	112 100	Safener	Unclassified
Flurtamone	96525-23-4	NA 217	NA 216	Herbicide	Unclassified
Fluthiacet	149253-65-6	NA 205	NA 204	Herbicide	Unclassified
Fluxofenim	88485-37-4	NA 202	NA 201	Herbicide	
		111202	141201	Safener	Unclassified
Formaldehyde	50-00-0	43001	295	Microbiocide,	Unclassified
				Fungicide	Ouclassified
Fosetyl-Al	39148-24-8	#####	2210	Fungicide	Unclassified
Fragrance 1256 H	NA 115	NA 227	2575	Fragrance	Unclassified
Fragrance for mosquito	51843	NA 140	3007	Fragrance	Unclassified
repellent p-7510			500,	1 ragianee	Officiassified
Fragrance N-5716	NA 116	NA 228	3852	Fragrance	Unclassified
Fragrance orange 418228	NA 117	NA 229	3889	Fragrance	Unclassified
Fragrance PNLF 6986	NA 633	NA 116	3563	Fragrance	Unclassified
Fragrance RS-2661	NA 824	NA 151	3891	Fragrance	Unclassified
Frambinone	5471-51-2	NA 212	NA 212	Fragrance	Unclassified
Fumaric acid	110-17-8	51201	297	N/A	Unclassified
Fumaric and crotonic acids,	NA 118	NA 230	1711	N/A	Unclassified
esters of				. 1 1/2 1	Onciassined
Fumigants	NA 1492	NA 221	NA 221	Fumigant	Unclassified
Furaneol 15% p.g.	NA 119	NA 231	2576	N/A	Unclassified
Furfural	98-01-1	43301	1522	N/A	Unclassified
Gentian	97676-22-7	#####	NA 108	Dye	Unclassified
Gentian violet	548-62-9	39502	1270	Microbiocide,	Unclassified
				Dye	Onorassinica
Gentian violet	548-62-9	98401	NA 173	Microbiocide,	Unclassified
				Dye ´	
Givaudan muquet PA-6664	NA 575	NA 104	2580	N/A	Unclassified
Glidden no. 3200 white latex	NA 113	NA 224	2581	N/A	Unclassified
Glue	NA 643	NA 118	3661	N/A	Unclassified
Glufosinate	51276-47-2	NA 203	NA 202	Herbicide	Unclassified
Glufosinate-ammonium	77182-82-2	#####	3946	Herbicide	Unclassified
Grease (bands, fruit trees)	NA 1350	NA 192	NA 191	Insecticide	Unclassified
Green M liquid dye	NA 106	NA 211	3840	Dye	Unclassified
Heptopargil	73886-28-9	NA 208	NA 207	Plant Growth	Unclassified
				Regulator	
Heptyl butyrate	5870-93-9	NA 207	3668	N/A	Unclassified
Hi-sol 15	NA 97	NA 192	2594	Solvent	Unclassified
Hostaphat MDAR-N-040	NA 98	NA 193	2596	N/A	Unclassified
Hostapon T powder highly	97-80-3	NA 171	3942	N/A	Unclassified
concentrated	202 21				
Hydrazine	302-01-2	NA 195	2598	Impurity,	Unclassified
				Breakdown	
Hydrolysed linseed fatty acid	NIA 1426	774 010	77.	product	
Hydroxyl amine sulfate	NA 1436	NA 212	NA 212	N/A	Unclassified
Hydroxyphenyl-salicylamide	10039-54-0	NA 181	3235	N/A	Unclassified
Inabenfide	NA 1396	NA 197	NA 196	Fungicide	Unclassified
mavenilde	82211-24-3	NA 205	NA 204	Plant Growth	Unclassified
	l			Regulator	

Chemical Name	CAS Number	TIC TRANS	12		
Onomical Hame	CAS Number	U.S. EPA PC		Use Type	Chemical Class
Indanofan	133220-30-1	Code NA 232	Code	-	
Indigo carmine	860-22-0	NA 146	NA 232	Herbicide	Unclassified
Inert (VOC reevaluation)	NA 877	NA 146	3530	Dye	Unclassified
Inert ingredients	NA 872		3973	N/A	Unclassified
Instex 10100 color concentrate	NA 88	NA 160	0	N/A	Unclassified
(black)	IVA 00	NA 170	2615	Dye	Unclassified
Irganox 1010	6683-19-8	NA 173	2602		
Irganox 1010	6683-19-8	NA 170	3623	N/A	Unclassified
Irganox 1076	2082-79-3	NA 174	3523	N/A	Unclassified
Iso-amyl mercaptan	541-31-1		2617	N/A	Unclassified
Isobutyl acetate	110-19-0	NA 213	NA 212	N/A	Unclassified
Isobutyric acid	79-31-2	NA 143	3241	N/A	Unclassified
Isooctyl phosphate	12645-53-3	#####	2110	Preservative	Unclassified
2500ctyr phosphate	12043-33-3	NA 162	3258	Soap/Surfactant	Unclassified
Isopropanolamine nitrite	NA 87	NIA 166	2015	, Adjuvant	
Isopropylamine	75-31-0	NA 166	3245	N/A	Unclassified
Isoprothiolane	50512-35-1	NA 157	3246	N/A	Unclassified
Isoval	NA 1385	NA 189	NA 188	Fungicide	Unclassified
Isoxapyrifop	87757-18-4	NA 195	NA 195	Rodenticide	Unclassified
Ivory snow	NA 75	NA 208	NA 208	Herbicide	Unclassified
K 1A112	NA 77	NA 146	3674	N/A	Unclassified
Kelsol 5134		NA 148	2628	N/A	Unclassified
Ketoconazole	68309-52-4	NA 149	3526	Solvent	Unclassified
Korax	65277-42-1	NA 216	NA 215	Fungicide	Unclassified
Krynac 1122	2425-66-3	11302	351	N/A	Unclassified
Latex paint	NA 79	NA 151	2632	N/A	Unclassified
Leonil DB powder	NA 74	NA 144	2634	N/A	Unclassified
Lignoflex	NA 71	NA 139	2639	N/A	Unclassified
Limonia 19-11189	NA 68	NA 131	3265	N/A	Unclassified
Linseed-soya alkyd resin	NA 69	NA 132	2643	N/A	Unclassified
Lithium	NA 62	NA 117	2646	N/A	Unclassified
(perfluorooctane)sulfonate	29457-72-5	75004	5678	Insecticide,	Unclassified
Long oil alkyd 5070	NA 64	274 100		Adjuvant	
Lubrizol 544	NA 65	NA 120	2648	Insecticide	Unclassified
2401201347	1VA 05	NA 121	2649	Solvent,	Unclassified
Luna yellow NB-l 1270	NA 66	NA 122	-0651	Adjuvant	
Luviset cap	25035-26-1		2651	Dye	Unclassified
Macroplast UK 8202/UK 5400	NA 57	NA 123	3867	N/A	Unclassified
Macroplast VAX-11688/UK	NA 58	NA 108	2652	N/A	Unclassified
5400	14W 20	NA 109	2653	N/A	Unclassified
Malachite green	569-64-2	39504	200		
Maleic anhydride	108-31-6	NA 102	366	Dye	Unclassified
Maleic anhydride, polymer	37199-81-8	NA 102	3272	N/A	Unclassified
with 2,4,4-trimethyl pentane,	3/133-61-6	NA 103	3271	N/A	Unclassified
sodium salt		İ			
Maleic hydrazide	123-33-1	51501	368	Diant Count	
		31301	308	Plant Growth Regulator	Unclassified
Maleic hydrazide	10071-13-3	NA 210	NA 209	Plant Growth	Y 1 1 10 1
		141210	14A 209	Regulator	Unclassified
Maleic hydrazide, choline salt	71203-19-5	51504	NA 422	Plant Growth	TImple-iC 1
				Regulator	Unclassified
Maleic hydrazide,	5716-15-4	51502	778	Plant Growth	Unclassified
diethanolamine salt				Regulator	Oliciassilied
Maleic hydrazide, potassium	28382-15-2	51503	2130	Plant Growth	Unclassified
				<del></del>	

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	<u>Ово турс</u>	Chemical Class
salt				Regulator, Herbicide	
Malic acid	6915-15-7	51101	1364	Microbiocide	Unclassified
Mark 1500	NA 49	NA 96	2663	N/A	Unclassified
Mark 1600	NA 50	NA 97	2664	N/A	Unclassified
Mark 1601	NA 51	NA 98	2665	N/A	Unclassified
Mark 1603	NA 740.	NA 135	2666	N/A	Unclassified
Mark 1607	NA 569	NA 103	2667	N/A	Unclassified
Mark 495	NA 56	NA 107	2660	N/A	Unclassified
Mark 565A	NA 48	NA 95	2661	N/A	Unclassified
Mark 706	NA 739	NA 135	2662	N/A	Unclassified
Marter white 400	NA 52	NA 99	2668	· N/A	Unclassified
Medicated block	NA 47	NA 92	3684	N/A	Unclassified
Mefenpyr	135591-00-3	NA 182	NA 181	Herbicide	Unclassified
				Safener	Cholabolilod
Mefenpyr-diethyl	135590-91-9	R47618	NA 177	Herbicide Safener	Unclassified
Menhaden oil	8002-50-4	NA 93	3686	N/A	Unclassified
Menthol	1490-04-6	51601	1074	Dog and Cat Repellent	Unclassified
Methoxy-2,4-dihydroxy pentene	NA 46	NA 89	3281	N/A	Unclassified
Methoxyphenone	41295-28-7	NA 209	NA 208	Herbicide	Unclassified
Methyl esters of cottonseed oil	61788-60-1	NA 148	3687	Adjuvant	Unclassified
Methyl ethyl ketone	78-93-3	44103	2680	Solvent	Unclassified
Methyl formate	107-31-3	53701	391	Fumigant	Unclassified
Methyl hydrogenated rosinate	8050-15-5	NA 82	3688	N/A	Unclassified
Methyl isocyanate	624-83-9	NA 180	NA 180	Breakdown product	Unclassified
Methyl isothiocyanate	556-61-6	68103	392	Fumigant, Insecticide, Herbicide, Nematicide, Breakdown product	Unclassified
Methyl methacrylate	80-62-6	NA 78	2151	N/A	Unclassified
Methylene blue	61-73-4	39505	387	Fungicide, Dye	Unclassified
Metosulam	139528-85-1	NA 184	NA 184	Herbicide	Unclassified
Milorganite	68512-89-0	NA 66	3693	N/A	Unclassified
MKH 6561	NA 1466	NA 217	NA 216	Herbicide	Unclassified
MON 4660	71526-07-3	#####	NA 162	N/A	Unclassified
Monosodium glutamate	32221-81-1	NA 59	2691	N/A	Unclassified
Morwet EFW	NA 36	NA 60	2693	Adjuvant	Unclassified
Morwet IP	NA 568	NA 102	3694	Adjuvant	Unclassified
Morwet IP	NA 887	NA 170	2694	Adjuvant	Unclassified
Multiresidue carbamate screen	NA 848	NA 158	4042	N/A	Unclassified
Multiresidue chlorinated hydrocarbon screen	NA 847	NA 158	4043	N/A	Unclassified
Multiresidue organophosphate screen	NA 846	NA 158	4044	N/A	Unclassified
Multiresidue triazine screen	NA 845	NA 157	4045	N/A	Unclassified
N,N-Diallyl-2,2- dichloroacetamide	37764-25-3	NA 187	NA 186	Herbicide Safener	Unclassified
n-Butyl acetate	142-62-1	#####	2434	N/A	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	I CA CI	TT (7)	T
	CIND INMIDEL	Code	Code	Use Type	Chemical Class
N-methyl-2-pyrrolidone	237900	NA 76	2684	N/A	**
N-TDF	NA 22	NA 34	2713	N/A	Unclassified
Naphthalene-formaldehyde	9008-63-3	NA 58	2692		Unclassified
condensate sulfonic acid,	2000-03-3	INA Jo	2092	Insecticide,	Unclassified
metallic salts	İ		]	Fungicide, Microbiocide,	
		ŀ	ļ	Adjuvant	
Naphthalic anhydride	81-84-5	NA 209	NA 208	Herbicide	Unclassified
			142200	Safener	Unclassified
Neo-decanoic acid	26896-20-8	97501	2699	N/A	Unclassified
Neodol 25	63393-82-8	NA 51	3930	N/A	Unclassified
Neuessence powder 411669	NA 781	NA 140	3003	N/A	Unclassified
Nipyraclofen	99662-11-0	NA 229	NA 229	Herbicide	Unclassified
Nitrile rubber	NA 743	NA 135	2704	N/A	Unclassified
Nitro ethane	79-24-3	NA 49	3298	Solvent	Unclassified
Nitromethane	75-52-5	NA 42	3299	Solvent	Unclassified
Nitrothal-isopropyl	10552-74-6	NA 181	NA 180	Fungicide	Unclassified
Non-ionic surfactants	NA 1443	NA 214	NA 213	Soap/Surfactant	Unclassified
			1121213	, Adjuvant	Unclassified
Nonoxynol-9-phosphate	NA 29	NA 43	2706	Adjuvant	Unclassified
Norbormide	991-42-4	86201	2711	N/A	Unclassified
Nuostabe v-1913	NA 23	NA 35	2715	N/A	Unclassified
Nuxtra calcium 6% catalyst	NA 25	NA 37	2716	N/A	Unclassified
Nuxtra calcium 8% catalyst	NA 26	NA 38	2717	N/A	Unclassified
Nuxtra manganese 9% catalyst	NA 15	NA 24	2718	N/A	Unclassified
Nylon	32131-17-2	NA 25	3703	N/A	Unclassified
Octachlorostyrene	29082-74-4	NA 215	NA 215	N/A	Unclassified
Orvus ES paste concentrate	NA 3	NA 3	2726	N/A	Unclassified
Ovex	80-33-1	20201	452	Insect Growth	
			132	Regulator	Unclassified
Oxabetrinil	74782-23-3	NA 205	NA 204	Herbicide	Unclassified
				Safener	Oliciassified
Oxadiargyl	39807-15-3	NA 211	NA 211	Herbicide	Unclassified
Oxapyrazon	4489-31-0	NA 209	NA 208	Herbicide	Unclassified
Oxapyrazon sodium	25316-56-7	NA 217	NA 217	Herbicide	Unclassified
Oxaziclomefone	153197-14-9	NA 233	NA 233	Herbicide	Unclassified
Oxidized polyethylene	68441-17-8	NA 118	3713	N/A	Unclassified
Oxygenated solvents	NA 379	NA 687	1767	Solvent	Unclassified
p-Chloronitrobenzene	100-00-5	NA 183	NA 182	Insecticide	Unclassified
Paint	NA 380	NA 688	3715	N/A	Unclassified
Panasol AN -2	NA 381	NA 690	2733	Solvent	Unclassified
Panasol AN-3	NA 382	NA 691	2732	Solvent	Unclassified
Paraformaldehyde	30525-89-4	43002	456	Microbiocide,	Unclassified
				Fungicide,	Onclassifica
				Insecticide	
Pareth 91-8	NA 889	NA 170	2734	N/A	Unclassified
Pentoxazone	110956-75-7	NA 233	NA 233	Herbicide	Unclassified
Perfluorooctane sulfonate	NA 1456	NA 216	NA 215	Insecticide	Unclassified
Perfume 08-28	NA 750	NA 136	2740	Fragrance	Unclassified
Perfume bouquet no. 3	NA 366	NA 672	2741	Fragrance	Unclassified
Perfume, chem-mask C no. 280	NA 367	NA 673	2742	Fragrance	Unclassified
Perfume, colonial bouquet	NA 368	NA 674	2744	Fragrance	Unclassified
8095		[			
Perfume, compound 2-2723	NA 752	NA 136	2745	Fragrance	Unclassified
Perfume, compound 44.368/g	NA 370	NA 676	2747	Fragrance	Unclassified

Perfume, compound bouquet   NA 369   NA 675   2746   Fragrance   Unclassified   Perfume, pL 10613   NA 823   NA 151   3888   Fragrance   Unclassified   Perfume, eaudesol mal (special)   NA 571   NA 677   2748   Fragrance   Unclassified   Perfume, grandows #651   NA 371   NA 678   2750   Fragrance   Unclassified   Perfume, hardware   Unclassified   Unclassified   NA 372   NA 678   2750   Fragrance   Unclassified   NA 573   NA 136   2751   Fragrance   Unclassified   Unclassified   NA 574   NA 575   Pragrance   Unclassified   Unclassified   NA 575   NA 575   Pragrance   Unclassified   Unclassified   Unclassified   NA 575   Pragrance   Unclassified   Unclassified   Unclassified   Unclassified   NA 575   Pragrance   Unclassified   Perfume, norda EC 137   NA 360   NA 661   2758   Pragrance   Unclassified   Perfume, pet perfume, #27253   NA 361   NA 664   2761   Pragrance   Unclassified   Perfume, R-7402   NA 362   NA 665   2763   Pragrance   Unclassified   Perfume, weaknown cleaner   NA 364   NA 667   2765   Pragrance   Unclassified   Perfume, weaknown cleaner   NA 364   NA 666   2764   Pragrance   Unclassified   Puclassified   Phosdiphen   36519-00-3   NA 209   NA 209   Pungleide   Unclassified   Phosdiphen   36519-00-3   NA 209   NA 209   Pungleide   Unclassified   Phosdiphen   36519-00-3   NA 209   NA 209   Pungleide   Unclassified   Phosdiphen   36519-00-3   NA 66	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	II. T	
Perfume, DL 10613		<u> </u>			Use Type	Chemical Class
Ferfume, pl. 10613	Perfume, compound bouquet	NA 369			Fragrance	I Implemation 1
Perfume, eaudesol mal (special)					1 lagrance	Unclassified
Perfume, fagrance oil 6198		NA 823	NA 151	3888	Fragrance	Unclassified
Perfume, fresh meadows #651   NA 753   NA 136   2751   Fragrance   Unclassified		NA 371	NA 677			
Perfume, nerosa fresh meadows #651   NA 753   NA 136   2751   Fragrance   Unclassified						Onclassified
Perfume, fresh meadows #651   NA 753   NA 136   2751   Fragrance   Unclassified		NA 372	NA 678	2750	Fragrance	Unclassified
Perfume, herbal fragrance oil no. 062   NA 354						
Perfume, malamasque no. 59					Fragrance	Unclassified
Perfume, malamasque no. 59		NA 354	NA 657	2753	Fragrance	Unclassified
Perfume, malathion 21-639		NIA 255	NIA (50	0554		
Perfume, marbelle 72160A NA 357 NA 660 2756   Fragrance Unclassified Perfume, neutroleum alpha NA 358 NA 661 2757   Fragrance Unclassified Perfume, neutroleum alpha NA 358 NA 661 2759   Fragrance Unclassified Perfume, new mown hay NA 359 NA 662 2759   Fragrance Unclassified Perfume, new mown hay NA 359 NA 662 2759   Fragrance Unclassified Perfume, new mown hay NA 360 NA 663 2760   Fragrance Unclassified Perfume, pet perfume #27253 NA 361 NA 664 2761   Fragrance Unclassified Perfume, Re-7402 NA 362 NA 665 2763   Fragrance Unclassified Perfume, Re-7402 NA 362 NA 665 2763   Fragrance Unclassified Perfume, weaknown of the perfume, NA 364 NA 667 2765   Fragrance Unclassified Perfume, weaknown cleaner NA 364 NA 667 2765   Fragrance Unclassified Perfume, weaknown cleaner NA 364 NA 667 2765   Fragrance Unclassified Phenyl ether NA 1400 NA 197 NA 196   Herbicide Unclassified Phosametine NA 1400 NA 197 NA 196   Herbicide Unclassified Phosphoproteins NA 350 NA 646 1250 N/A Unclassified Phubalide 27355-22-2 NA 205 NA 209   Fragrance Unclassified Phubalide 27355-22-2 NA 205 NA 205   NA 206 Unclassified Phubalide 27355-22-2 NA 205 NA 207   Pragrance Unclassified Phibalide 27355-3-3-5 NA 643 2780   Dye Unclassified Phibalide 27355-3-3-5 NA 646 2779   Dye Unclassified Phibalide 27355-3-3-8 NA 643 2780   Dye Unclassified Phibalide 27355-3-3-8 NA 643 2780   Dye Unclassified Phibalide 27355-3-3-8 NA 644 2779   Dye Unclassified Phibalide 2735-3-3-3 NA 646 3870   Dye Unclassified Phibalide Phibalide 29 57455-37-5 NA 643 2780   Dye Unclassified Phibalide Phibalide 29 57455-37-3 NA 644 2780   Dye Unclassified Phibalide Phibalide 29 57455-37-3 NA 646 2780   Dye Unclassified Phibalide Phibalide 29 57455-37-3 NA 647   Pragrance NA 388   Pragrance NA 389   Pragrance Unclassified Phibalide Phibalide NA 148   NA 212   NA 211   NA 211   NA 211   NA 211   NA 211   NA 212   NA 211   NA 214   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215   NA 215						
Perfume, mimosa no. 5						
Perfume, neutroleum alpha						
Perfume, new mown hay						
Perfume, norda EC-137         NA 360         NA 663         2760         Fragrance         Unclassified           Perfume, pet perfume # 27253         NA 361         NA 664         2761         Fragrance         Unclassified           Perfume, phase b-5         NA 362         NA 665         2763         Fragrance         Unclassified           Perfume, veilex 40019         NA 362         NA 665         2763         Fragrance         Unclassified           Perfume, washroom cleaner         10         NA 364         NA 666         2764         Fragrance         Unclassified           Perfume, weilex 40019         NA 363         NA 666         2764         Fragrance         Unclassified           Perfume, weilex 40019         NA 363         NA 666         2764         Fragrance         Unclassified           Perfume, weilex 40019         NA 363         NA 666         2764         Fragrance         Unclassified           Perfume, weilex 40019         NA 363         NA 667         2765         Fragrance         Unclassified           Perfume, weilex 40019         NA 363         NA 667         2765         Fragrance         Unclassified           Phosation         NA 1400         NA 1490         NA 209         NA 209         NA 209						
Perfume, pet perfume # 27253   NA 361   NA 664   2761   Fragrance   Unclassified	Perfume, norda EC-137					
Perfume, phase b-5	Perfume, pet perfume # 27253					
Perfume, veilex 40019	Perfume, phase b-5					
Perfume, veilex 40019						
Perfume, washroom cleaner   Day 184						
Douguet # 152-587						
Phosametine	bouquet # 152-587		1121 007	2705	rragrance	Unclassified
Phosametine	Phenyl ether	101-84-8	NA 653	3324	N/A	I Implement Co. 1
Phosphoproteins		NA 1400				
Phosphoproteins         NA 350         NA 646         1250         N/A         Unclassified           Phthalaldehyde         643-79-8         #####         5107         Microbiocide         Unclassified           Phthalide         2735-22-2         NA 205         NA 205         Fungicide         Unclassified           Phthalogreen         NA 348         NA 642         2779         Dye         Unclassified           Picaridin         NA 1434         NA 642         2779         Dye         Unclassified           Pigment blue 29         57455-37-5         NA 643         2780         Dye         Unclassified           Pigment green 7         1328-53-6         NA 636         3870         Dye         Unclassified           Pigment red 178         3049-71-6         NA 637         3869         Dye         Unclassified           Pigment red 57:1         6887-51-9         NA 171         3868         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Piperalin         3478-94-2         9703         488         Fungicide         Unclassified           Piperalin         3478-94-2         9703         488		36519-00-3				
Phthalaide		NA 350	NA 646			
Phthalide         27355-22-2         NA 205         NA 205         Fungicide         Unclassified           Phthalo green         NA 348         NA 642         2779         Dye         Unclassified           Picaridin         NA 1434         NA 212         NA 211         Insect         Unclassified           Pigment blue 29         57455-37-5         NA 643         2780         Dye         Unclassified           Pigment green 7         1328-53-6         NA 636         3870         Dye         Unclassified           Pigment red 178         3049-71-6         NA 637         3869         Dye         Unclassified           Pigment red 57:1         6887-51-9         NA 171         3868         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Pungicide         Unclassified           Pipraticin         7681-93-8         NA 203         NA 202         Pungicide         Unclassified           Piperalin         3478-94-2         97003         488         Fungicide         Unclassified           Piprotanyl         69309-47-3         NA 209			#####			
Phthalo green		27355-22-2	NA 205			
Picaridin		NA 348	NA 642			
Pigment blue 29   57455-37-5   NA 643   2780   Dye   Unclassified	Picaridin	NA 1434	NA 212	NA 211		
Pigment green 7         1328-53-6         NA 636         3870         Dye         Unclassified           Pigment red 178         3049-71-6         NA 637         3869         Dye         Unclassified           Pigment red 57:1         6887-51-9         NA 171         3868         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Piprentine         94-62-2         NA 223         NA 202         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified	Diamond 11 and 20				Repellent	
Pigment red 178         3049-71-6         NA 637         3869         Dye         Unclassified           Pigment red 57:1         6887-51-9         NA 171         3868         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Pigment red no. 48         16013-44-8         NA 203         NA 202         Fungicide         Unclassified           Piproctanyl         94-62-2         NA 223         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Plurafic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac Degeners <td></td> <td></td> <td></td> <td></td> <td>Dye</td> <td>Unclassified</td>					Dye	Unclassified
Pigment red 57:1         6887-51-9         NA 171         3868         Dye         Unclassified           Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pimaricin         7681-93-8         NA 203         NA 202         Fungicide         Unclassified           Piperalin         3478-94-2         97003         488         Fungicide         Unclassified           Piperine         94-62-2         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plurafac B-26         69227-21-0         NA 625         764         Adjuvant         Unclassified           Plurafic C-17         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafic E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786					Dye	Unclassified
Pigment red no. 48         16013-44-8         NA 149         3729         Dye         Unclassified           Pimaricin         7681-93-8         NA 203         NA 202         Fungicide         Unclassified           Piperalin         3478-94-2         97003         488         Fungicide         Unclassified           Piperine         94-62-2         NA 223         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Pluraflo E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic B-104         NA 341						Unclassified
Pimaricin         7681-93-8         NA 203         NA 202         Fungicide         Unclassified           Piperalin         3478-94-2         97003         488         Fungicide         Unclassified           Piperine         94-62-2         NA 223         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Plurafic E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic I63         NA 341						Unclassified
Piperalin         3478-94-2         97003         488         Fungicide         Unclassified           Piperine         94-62-2         NA 223         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafic E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic P-104         NA 344         NA 630         2787         N/A         Unclassified						Unclassified
Piperine         94-62-2         NA 223         NA 223         N/A         Unclassified           Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Pluraflo E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic L-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic 163         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 343         NA 6						Unclassified
Piproctanyl         69309-47-3         NA 209         NA 209         Plant Growth Regulator         Unclassified           Piproctanyl bromide         56717-11-4         NA 218         NA 217         Plant Growth Regulator         Unclassified           Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Pluraflo E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic L-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic 163         NA 343         NA 630         2785         N/A         Unclassified           Pluronic P-104         NA 344         NA 630         2785         N/A         Unclassified						
Piproctanyl bromide   56717-11-4   NA 218   NA 217   Plant Growth Regulator   Unclassified						
Piproctanyl bromide   56717-11-4   NA 218   NA 217   Plant Growth Regulator   Plastic polymers   NA 339   NA 625   764   Adjuvant   Unclassified   Plurafac B-26   69227-21-0   NA 626   2782   N/A   Unclassified   Plurafac C-17   69227-21-0   NA 137   2783   N/A   Unclassified   Pluraflo E4A   NA 340   NA 627   2784   Soap/Surfactant   Unclassified   Pluronic 10-R-5   NA 345   NA 632   2790   N/A   Unclassified   Pluronic I-101   NA 759   NA 137   2788   N/A   Unclassified   Pluronic L-62 LF   NA 342   NA 629   2786   N/A   Unclassified   Pluronic L61   NA 341   NA 628   2785   N/A   Unclassified   Pluronic P-104   NA 344   NA 630   2787   N/A   Unclassified   Pluronic P-104   NA 344   NA 631   2787   N/A   Uncla	i ipioumyi	09309-47-3	NA 209	NA 209		Unclassified
Plastic polymers   NA 339   NA 625   764   Adjuvant   Unclassified	Piproctanyl bromide	56717-11-4	NA 218	NIA 217		
Plastic polymers         NA 339         NA 625         764         Adjuvant         Unclassified           Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Plurafio E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic I-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic P-104         NA 344         NA 630         2787         N/A         Unclassified		, ,	142 216	NA 217		Unclassified
Plurafac B-26         69227-21-0         NA 626         2782         N/A         Unclassified           Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Pluraflo E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic I-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic P-104         NA 343         NA 630         2787         N/A         Unclassified	Plastic polymers	NA 339	NA 625	764		Thelesia 1
Plurafac C-17         69227-21-0         NA 137         2783         N/A         Unclassified           Pluraflo E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic 1-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic P-104         NA 344         NA 630         2787         N/A         Unclassified						
Plurafio E4A         NA 340         NA 627         2784         Soap/Surfactant         Unclassified           Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic 1-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic 163         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 344         NA 631         2780         N/A         Unclassified						
Pluronic 10-R-5         NA 345         NA 632         2790         N/A         Unclassified           Pluronic 1-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic 163         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 344         NA 631         2789         N/A         Unclassified						
Pluronic I-101         NA 759         NA 137         2788         N/A         Unclassified           Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic I63         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 344         NA 621         2780         N/A         Unclassified		NA 345				
Pluronic L-62 LF         NA 342         NA 629         2786         N/A         Unclassified           Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic l63         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 344         NA 631         2787         N/A         Unclassified		NA 759				
Pluronic L61         NA 341         NA 628         2785         N/A         Unclassified           Pluronic l63         NA 343         NA 630         2787         N/A         Unclassified           Pluronic P-104         NA 344         NA 631         2787         N/A         Unclassified		NA 342				
Pluronic 163 NA 343 NA 630 2787 N/A Unclassified  Pluronic P-104 NA 344 NA 631 2789						
Pluronic P-104 NA 344 NA 621 0700			NA 630			
	Pluronic P-104	NA 344	NA 631			

Chemical Name	CAS Number	U.S. EPA PC	CA Cham	TT TD	
	<u>OARD I TUMBOLI</u>	Code	<u>CA Chem</u> <u>Code</u>	Use Type	Chemical Class
PMS-5406-T pigment	NA 346	NA 633	2791	N/A	TT1- 'C 1
Po-san	37339-61-0	98804	NA 861	N/A	Unclassified
Po-san	76930-44-4	98804	NA 862	N/A	Unclassified
Poly(oxyethylene)	31512-74-0	69183	1576	Microbiocide	Unclassified
(dimethylimino) ethylene	1 2122	09103	13/0	Micropiocide	Unclassified
(dimethylimino) ethylene		1			
dichloride					
Poly-i-para-menthene	34363-01-4	NA 610	1314	Insect Growth	Unclassified
				Regulator	Onciassined
Polyacrylamide polymer	2592984	NA 634	2111	Adjuvant	Unclassified
Polyalkylene ether	NA 347	NA 635	2271	Adjuvant	Unclassified
Polyamide resin	NA 621	NA 112	2795	N/A	Unclassified
Polyamine polymer	NA 334	NA 620	1907	Adjuvant	Unclassified
Polyhexamethylene	32289-58-0	######	2258	Microbiocide,	Unclassified
biguanidine				Fungicide	
Polymer emulsion K	NA 329	NA 611	2804	Adjuvant	Unclassified
Polymerized acrylic acid	2592860	52902	3738	Adjuvant	Unclassified
Polyoxin	11113-80-7	NA 194	NA 193	Fungicide	Unclassified
Polyurethane	NA 426	NA 768	3770	N/A	Unclassified
Polyvinyl butyral resin	NA 427	NA 769	2820	N/A	Unclassified
Polyvinyl chloride	9002-86-2	NA 770	2821	N/A	Unclassified
Polyvinylpyrrolidone-	82010-83-1	43003	NA 367	Microbiocide	Unclassified
formaldehyde complex Polyvis O-SH	274 400				
Poly[hydroxyethylene(dimethy	NA 428	NA 771	2823	N/A	Unclassified
liminio)ethylene(dimethylimini	NA 1512	NA 223	NA 222	Microbiocide	Unclassified
o)methylene dichloride					
Potassium 3-(2-(2-(2-	NA 998	NA 779	3352		
hydroxy ethyl) ethyl) octadecyl	11A 996	NA //9	3332	Preservative	Unclassified
amino)ethoxy) propionate					
Potassium N-ethyl perfluoro	NA 997	NA 777	3354	Insecticide,	Y I
octane sulfonamide acetate			3331	Adjuvant	Unclassified
Probenazole	27605-76-1	NA 205	NA 205	Fungicide,	Unclassified
				Microbiocide	Onciassified
Propellant A-46	NA 441	NA 794	2834	Propellant	Unclassified
Propellant A-70	NA 762	NA 137	2835	Propellant	Unclassified
Propellant A-91	NA 442	NA 795	2836	Propellant	Unclassified
Propellant B-46	NA 443	NA 796	3887	Propellant	Unclassified
Propidine	NA 1449	NA 215	NA 214	Insect	Unclassified
Promionio arid				Repellent	
Propionic acid	79-09-4	77702	505	Fungicide,	Unclassified
	Í			Microbiocide,	
Propyl-3-t-butylphenoxyacetate	NA 1407	NIA 100	371 105	Preservative	
	NA 1407	NA 198	NA 197	Plant Growth	Unclassified
Pyrazolynate	58011-68-0	NA 205	NIA 205	Regulator	
Pyribenzoxim	168088-61-7	NA 233	NA 205	Herbicide	Unclassified
Pyriminobac	136191-56-5	NA 206	NA 233 NA 205	Herbicide	Unclassified
Pyroquilone	57369-32-1	NA 190	NA 189	Herbicide	Unclassified
Quinacetol sulfate	57130-91-3	NA 210	NA 209	Fungicide	Unclassified
Quinizarin green SS	128-80-3	NA 109	3374	Fungicide	Unclassified
Quinoclamine	2797-51-5	NA 185	NA 184	Dye	Unclassified
		141103	17A 104	Herbicide,	Unclassified
Quinoxyfen	124495-18-7	NA 206	NA 205	Algaecide Fungicide	Timeles-'C' 1
Resins and polymers	NA 1374	NA 194	NA 193	Pruning Aid,	Unclassified
			-141 173	Trumig Ald,	Unclassified

Chemical Name	CAS Number	IIC EDA DO	ICA OF	77 =	
	CAS Muniber	U.S. EPA PC Code		Use Type	Chemical Class
	<del> </del>	Code	Code	Adimond	
RH - 2485	NA 1467	NA 217	NA 217	Adjuvant Insecticide	
Rhodamine B	81-88-9	NA 138	2846		Unclassified
' Sebacic acid	111-20-6	NA 187	NA 186	Dye Repellent	Unclassified
Sec-butylamine	13952-84-6	4214	1704	Fungicide	Unclassified
Seconal	.76-73-3	NA 190	NA 189		Unclassified
Secret formula no. 1	NA 2	NA 2	1837	N/A	Unclassified
	1112	INAZ	1037	N/A	Unclassified,
Secret formula no. 2	NA 458	NA 820	1838	N/A	Unclassified
Silthiofam	175217-20-6	NA 210	NA 210	Fungicide	Unclassified
Sintofen	130561-48-7	NA 185	NA 184	Plant Growth	Unclassified
		1411105	11/1/104	Regulator	Unclassified
Sodium 2-ethylhexanoate	19766-89-3	NA 214	NA 214	Fungicide,	Unclassified
				Microbiocide	Onclassified
Sodium caprylate	29372	79063	3388	N/A	Unclassified
Sodium chloroacetate	3926-62-3	#####	NA 141	Herbicide	Unclassified
Sodium diacetoneketogulonate	NA 1397	NA 197	NA 196	Plant Growth	Unclassified
				Regulator	Onciassified
Sodium gluconate	527-07-1	105	3406	N/A	Unclassified
Sodium methyl sulfate	512-42-5	NA 145	3417	N/A	Unclassified
Sodium petroleum sulfonate	68608-26-4	79035	3431	Insecticide,	Unclassified
				Adjuvant	Cholassifica
Sodium propionate	137-40-6	77703	3434	Fungicide,	Unclassified
G-1-1- 00				Preservative	
Solulan 98	NA 474	NA 874	2867	Solvent	Unclassified
Solulan L-575	NA 763	NA 138	2868	N/A	Unclassified
Solvent red 49	509-34-2	NA 875	3900	Dye	Unclassified
Spiroxamine	118134-30-8	NA 202	NA 202	Fungicide	Unclassified
Sponto 168	NA 484	NA 888	2875	N/A	Unclassified
Sponto 232T	NA 492	NA 896	2885	N/A	Unclassified
Sponto 234T	NA 766	NA 138	2886	N/A	Unclassified
Sponto AK-30-02BT	NA 485	NA 889	2876	N/A	Unclassified
Sponto AK31-27A	NA 764	NA 138	2877	N/A	Unclassified
Sponto AK31-27B	NA 486	NA 890	2878	N/A	Unclassified
Sponto AK31-38	NA 487	NA 891	2879	N/A	Unclassified
Sponto AK31-56A	NA 488	NA 892	2880	N/A	Unclassified
Sponto AK31-56B	NA 765	NA 138	2881	N/A	Unclassified
Sponto AK31-56M	NA 632	NA 116	3558	N/A	Unclassified
Sponto N-140B	NA 489	NA 893	2882	N/A	Unclassified
Sponto N-300B Sponto N-500B	NA 490	NA 894	2883	N/A	Unclassified
	NA 491	NA 895	2884	N/A	Unclassified
Sta-pro 3000	NA 493	NA 897	2889	N/A	Unclassified
Stepan C-65 methyl ester	NA 496	NA 903	2893	N/A	Unclassified
Stepantan A	NA 497	NA 904	2894	N/A	Unclassified
Stepfac 8172	NA 767	NA 138	2895	N/A	Unclassified
Sterilix	NA 656	NA 121	550	Microbiocide	Unclassified
Sterox NJ	NA 498	NA 905	2896	N/A	Unclassified
Stoddard solvent	8052-41-3	63504	NA 516	Solvent,	Unclassified
	ŀ	ļ		Herbicide,	
Styrene acrylic copolymer	25095 24 1	271 655		Insecticide	
Styrene/pvp copolymer	25085-34-1	NA 907	3457	Adjuvant	Unclassified
Sudan III	25086-29-7	NA 908	3812	Adjuvant	Unclassified
Sulcotrione	85-86-9	NA 909	3459	Dye	Unclassified
24100HIOHE	99105-77-8	NA 185	NA 184	Herbicide	Unclassified

Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
		Code	Code	950 1700	Chemical Class
Sulfated dipentane	NA 500	NA 911	3460	N/A	Unclassified
Sulfonated cod liver oil	NA 1464	NA 217	NA 216	N/A	Unclassified
Sulglycapin	51068-60-1	NA 233	NA 233	Herbicide	Unclassified
Sure sol 180	NA 505	NA 916	2903	Solvent	Unclassified
Surflo B11	NA 606	NA 110	2904	Soap/Surfactant	Unclassified
Surflo B13	NA 506	NA 917	2905	Soap/Surfactant	Unclassified
Surflo B16	NA 507	NA 918	2906	Soap/Surfactant	Unclassified
Surflo B17	NA 508	NA 919	2907	Soap/Surfactant	Unclassified
Surflo B19	NA 770	NA 139	2908	Soap/Surfactant	Unclassified
Sustane 3 .	NA 622	NA 113	2909	N/A	
T-DET N-9.5	NA 513	NA 928	2917	N/A	Unclassified Unclassified
T-mulz 565	NA 528	NA 955	2944	Adjuvant	
T-mulz 94W	NA 531	NA 958	2949	Adjuvant	Unclassified
T-mulz AO2	NA 772	NA 139	2943	N/A	Unclassified
T-mulz O	NA 529	NA 956	2945	Adjuvant	Unclassified
T-mulz PB	NA 530	NA 957	2946	Adjuvant	Unclassified
T-Mulz VO	NA 610	NA 111	2947	N/A	Unclassified
T-mulz W	NA 773	NA 139	2948		Unclassified
Tabu powder	NA 510	NA 922	1462	N/A	Unclassified
Tacks	NA 818	NA 151	3816	N/A	Unclassified
Tenneco 225F PVC resin	NA 514	NA 930	2919	N/A	Unclassified
Tenneco T500-100	NA 771	NA 139	2920	N/A	Unclassified
Tenox 2	NA 515	NA 931	2920	N/A	Unclassified
Tenox 4	NA 516	NA 932	2921	Preservative	Unclassified
Tenox R	NA 517	NA 933		Preservative	Unclassified
Tenox S-1	NA 518	NA 934	2923 2924	Preservative	Unclassified
Tensiofix B7416	NA 895	NA 171	3943	Preservative	Unclassified
Tensiofix B7453	NA 896	NA 171		Soap/Surfactant	Unclassified
Tergitol 15-S-12	NA 623	NA 113	3944	Soap/Surfactant	Unclassified
Tergitol 15-S-12 acrylate	NA 519	NA 935	2926 2927	N/A	Unclassified
Tergitol 15-S-20	NA 520	NA 936	2928	N/A	Unclassified
tert-Butylamine Endothall	26648-01-1	38909		N/A	Unclassified
			NA 327	Herbicide, Defoliant	Unclassified
Tetrahydrofuran	109-99-9	NA 944	2933	Solvent	Unclassified
Texaphor special	NA 524	NA 951	2935	N/A	Unclassified
TF-310	NA 525	NA 952	3524	N/A	Unclassified
Thanite	115-31-1	47101	586	Insecticide	Unclassified
Thickener, unknown	NA 526	NA 953	2936	Adjuvant	Unclassified
Thicyofen	116170-30-0	NA 210	NA 209	Fungicide	Unclassified
Thidiazimin	123249-43-4	NA 230	NA 229	Herbicide	Unclassified
Thiocyclam	31895-21-3	NA 182	NA 181	Insecticide	Unclassified
Thiocyclam hydrogen oxalate	31895-22-4	#####	NA 104	Insecticide	Unclassified
Thixatrol ST	NA 820	NA 151	3853	N/A	Unclassified
Toximul 500	NA 532	NA 963	2951	Insecticide	Unclassified
Toximul 850 m	NA 826	NA 152	3918	N/A	Unclassified
Toximul D	NA 533	NA 964	2952	N/A	Unclassified
Toximul H	NA 534	NA 965	2953	N/A	Unclassified
Toximul P	NA 774	NA 140	2954	N/A	Unclassified
Toximul TA-5	NA 535	NA 966	2955	N/A	Unclassified
Triapenthenol	76608-88-3	NA 190	NA 189	Plant Growth	Unclassified
Triaryl methane	NA 536	NIA OCT	20.55	Regulator	
Triazoxide	72459-58-6	NA 967	2957	N/A	Unclassified
	12737-30-0	NA 185	NA 184	Fungicide	Unclassified

Tributyl phosphate   126-73-8   NA 969   3480   N/A   Unclassified   Triblamide   70193-21-4   NA 210   NA 209   Fungicide   Unclassified   Triblaropyridinol   NA 1338   NA 180   NA 179   Breakdown product   Unclassified   Tridemorph   24602-86-6   #####   NA 201   Fungicide   Unclassified   Tridemorph   81412-43-3   #####   NA 201   Fungicide   Unclassified   Tridemorph   81412-43-3   #####   NA 201   Fungicide   Unclassified   Tritomorph   110-88-3   NA 190   NA 189   Pungicide   Unclassified   Tritom CF-10   NA 542   NA 991   3268   Sosp/Surfactant   Unclassified   Tritom CF-10   NA 542   NA 991   2968   Sosp/Surfactant   Unclassified   Trytom NF-4   NA 755   NA 140   2970   N/A   Unclassified   Trytom NF-9   NA 543   NA 993   2971   N/A   Unclassified   Trytom NF-9   NA 544   NA 994   2972   N/A   Unclassified   Trytom NF-9   NA 544   NA 994   2972   N/A   Unclassified   Trytom NF-9   NA 545   NA 995   2973   N/A   Unclassified   Trytac 910-K   NA 546   NA 996   2974   N/A   Unclassified   UL-94 HFI listed polyester   NA 776   NA 140   2977   N/A   Unclassified   UL-94 HFI listed polyester   NA 776   NA 140   2977   N/A   Unclassified   UL-94 HFI listed polyester   NA 348   NA 999   2976   N/A   Unclassified   UL-94 HFI listed polyester   NA 1175   67323   NA 165   Fungicide   Unclassified   Unclass	Chemical Name	CAS Number	U.S. EPA PC	CA Chem	Use Type	Chemical Class
Trichlamide					Sec X, pe	Chemical Class
Trichlamide	Tributyl phosphate	126-73-8	NA 969	3480	N/A	Unclassified
Trichloropyridinol	Trichlamide	70193-21-4	NA 210	NA 209		
Tridemorph	Trichloropyridinol	NA 1338	NA 180	NA 179		
Tridemorph					product	•
Triethyl phosphate				NA 987	Fungicide	Unclassified
Tritoxymethylene			######	NA 201	Fungicide	Unclassified
Tritox/methylene			NA 979	3489	N/A	
Triton CF-10	Trioxymethylene	110-88-3	NA 190	NA 189		Unclassified
Triton X-363	G :					
Trycol NP-6						
Trycol NP-9						
Trycol NP-9						
Tryfac 5566		<del></del>				Unclassified
Tryfac 910-K						
Turgasept NA 776 NA 140 2975 N/A Unclassified Ucar solution vinyl VAGH NA 548 NA 999 2976 N/A Unclassified UL-94 HF   listed polyester foam Unknown (In EPA Product data w/o name) Unknown (In EPA Product data w/o n						
Ucar solution vinyl VAGH NA 548 NA 999 2976 N/A Unclassified UL-94 HFI listed polyester foam Unknown (In EPA Product data w/o name) Unk						
UL-94 HF1 listed polyester foam						
Unknown (In EPA Product data w/o name)						
Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product NA 1181 ##### NA 166 Microbiocide Unclassified data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product NA 1182 ##### NA 166 N/A Unclassified data w/o name)  Unknown (In EPA Product data w/o name)  Urethane adhesive, parts a & b NA 551 NA 100 2979 N/A Unclassified Versalon 1112 NA 613 NA 111 2984 N/A Unclassified Vinyl acetate 108-05-4 NA 100 2116 N/A Unclassified Vinyl polymer NA 680 NA 125 1754 Adjuvant Unclassified Vinyl resin, synthetic NA 554 NA 100 1533 N/A Unclassified Vinyl resin, synthetic NA 554 NA 100 1533 N/A Unclassified Water soluble dyes NA 1517 NA 223 NA 223 Dye Unclassified Water soluble dyes NA 1376 NA 194 NA 194 Pruning Aid, Adjuvant Wickenol 535 NA 779 NA 140 2989 N/A Unclassified Wing stay V NA 561 NA 101 2990 N/A Unclassified Witcemol 535 NA 779 NA 140 2989 N/A Unclassified Witcemol 535 NA 563 NA 101 2990 N/A Unclassified Witcomine tam-45 NA 562 NA 101 2990 N/A Unclassified Witcomine tam-45 NA 562 NA 101 2990 N/A Unclassified Witcomine tam-45 NA 562 NA 101 2990 N/A Unclassified Witcomine tam-45 NA 563 NA 101 3882 N/A Unclassified		NA 549	NA 100	2977	N/A	Unclassified
Unknown (In EPA Product data w/o name)		NIA 1175	67222	274 165	<u> </u>	
Unknown (In EPA Product data w/o name)		NA 1173	0/323	NA 165	Fungicide	Unclassified
Unknown (In EPA Product data w/o name)		NA 1176	60144	NIA 165	Migrahiasida	TT1
Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Unknown (In EPA Product data w/o name)  Urethane adhesive, parts a & b NA 551 NA 100 2979 N/A Unclassified Versalon 1112 NA 613 NA 111 2984 N/A Unclassified Versalon 1112 NA 613 NA 111 2984 N/A Unclassified Vinyl acetate 108-05-4 NA 100 2116 N/A Unclassified Vinyl polymer NA 680 NA 125 1754 Adjuvant Unclassified Vinyl resin, synthetic NA 554 NA 100 1533 N/A Unclassified Vinyl resin, synthetic NA 554 NA 100 1533 N/A Unclassified Water soluble dyes NA 1517 NA 223 NA 223 Dye Unclassified Water soluble dyes NA 157 NA 223 NA 223 Dye Unclassified Water soluble dyes NA 157 NA 223 NA 223 Dye Unclassified Water soluble dyes NA 1570 NA 194 NA 194 Pruning Aid, Adjuvant Waxes NA 1562 NA 110 2990 N/A Unclassified Witcamine tam-45 NA 562 NA 101 2992 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified Witcamine tam-45 NA 563 NA 101 3882 N/A Unclassified		112.17.0	09144	NA 103	Microbiocide	Unclassified
Unknown (In EPA Product data w/o name)		NA 1177	69162	NA 165	Microbiocide	Unalogaified
Unknown (In EPA Product data w/o name)			05,102	1111105	1VIICIODIOCIDE	Onciassined
Unknown (In EPA Product data w/o name)	Unknown (In EPA Product	NA 1178	79061	NA 165	Microbiocide	Unclassified
Unknown (In EPA Product data w/o name)						011011100
Unknown (In EPA Product data w/o name)         NA 1180         #####         NA 166         Microbiocide         Unclassified           Unknown (In EPA Product data w/o name)         NA 1181         ######         NA 166         Microbiocide         Unclassified           Unknown (In EPA Product data w/o name)         NA 1182         #####         NA 166         N/A         Unclassified           Urethane adhesive, parts a & b         NA 551         NA 100         2979         N/A         Unclassified           Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           <		NA 1179	#####	NA 166	Microbiocide	Unclassified
Unknown (In EPA Product data w/o name)						
Unknown (In EPA Product data w/o name)         NA 1181         #####         NA 166         Microbiocide         Unclassified           Unknown (In EPA Product data w/o name)         NA 1182         #####         NA 166         N/A         Unclassified           Unknown (In EPA Product data w/o name)         NA 1183         #####         NA 166         N/A         Unclassified           Urethane adhesive, parts a & b         NA 551         NA 100         2979         N/A         Unclassified           Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Wickenol 535		NA 1180	#####	NA 166	Microbiocide	Unclassified
Unknown (In EPA Product data w/o, name)		374 1101	200000			
Unknown (In EPA Product data w/o name)         NA 1182         ######         NA 166         N/A         Unclassified           Unknown (In EPA Product data w/o name)         NA 1183         ######         NA 166         N/A         Unclassified           Urethane adhesive, parts a & b         NA 551         NA 100         2979         N/A         Unclassified           Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA		NA 1181	#####	NA 166	Microbiocide	Unclassified
Unknown (In EPA Product data w/o name)		NIA 1100	21211221	274 166	ļ	
Unknown (In EPA Product data w/o name)         NA 1183         ############         NA 166         N/A         Unclassified           Urethane adhesive, parts a & b         NA 551         NA 100         2979         N/A         Unclassified           Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wing stay V         NA 561         NA 101         2989         N/A         Unclassified           Witcamine tam-45         NA 562 <td< td=""><td></td><td>NA 1102</td><td><del>#####</del></td><td>NA 100</td><td>N/A</td><td>Unclassified</td></td<>		NA 1102	<del>#####</del>	NA 100	N/A	Unclassified
Urethane adhesive, parts a & b   NA 551   NA 100   2979   N/A   Unclassified		NA 1183	#####	NIA 166	NT/A	T1 1 'C 1
Urethane adhesive, parts a & b         NA 551         NA 100         2979         N/A         Unclassified           Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992		1011105	nunnu	1NA 100	IN/A	Unclassified
Versalon 1112         NA 613         NA 111         2984         N/A         Unclassified           Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wing stay V         NA 561         NA 101         2989         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A </td <td></td> <td>NA 551</td> <td>NA 100</td> <td>2979</td> <td>N/A</td> <td>Unclassified</td>		NA 551	NA 100	2979	N/A	Unclassified
Versamid resins         NA 651         NA 119         3822         N/A         Unclassified           Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcomine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Vinyl acetate         108-05-4         NA 100         2116         N/A         Unclassified           Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcomine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Versamid resins					
Vinyl polymer         NA 680         NA 125         1754         Adjuvant         Unclassified           Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcomine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Vinyl acetate					
Vinyl resin, synthetic         NA 554         NA 100         1533         N/A         Unclassified           Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Vinyl polymer	NA 680				
Vitamin K3         58-27-5         6319         NA 89         N/A         Unclassified           Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Vinyl resin, synthetic					
Water soluble dyes         NA 1517         NA 223         NA 223         Dye         Unclassified           Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Vitamin K3	58-27-5				
Waxes         NA 1376         NA 194         NA 194         Pruning Aid, Adjuvant         Unclassified           Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified	Water soluble dyes	NA 1517				
Mickenol 535   NA 779   NA 140   2989   N/A   Unclassified	Waxes					
Wickenol 535         NA 779         NA 140         2989         N/A         Unclassified           Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified						
Wing stay V         NA 561         NA 101         2990         N/A         Unclassified           Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified				2989		Unclassified
Witafrol 7420         NA 625         NA 113         2991         N/A         Unclassified           Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified			NA 101	2990		
Witcamine tam-45         NA 562         NA 101         2992         N/A         Unclassified           Witco C-5752         NA 563         NA 101         3882         N/A         Unclassified				2991		
Witco C-5752 NA 563 NA 101 3882 N/A Unclassified				2992		
117.4			NA 101	3882		
Unclassified	Witconate p-1020bu	NA 614	NA 111	3884	N/A	Unclassified

Chemical Name	CAS Number	U.S. EPA PC Code	CA Chem Code	Use Type	Chemical Class
Witconol 1S-108	NA 564	NA 101	2993	N/A	Unclassified
Zein	9010-66-6	NA 102	3504	N/A	Unclassified

<sup>\*</sup> N/A = Not Available\

# II. Augmenting the Sensitivity of Plants to Herbicides

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In certain embodiments of the invention, the effectiveness of herbicides is augmented by methods and compositions for the contemporaneous administration of one or more ectophosphatase inhibitors in combination with herbicides. Such applications may, in addition to increasing the effectiveness of herbicides, allow the use of reduced concentrations of herbicides, thereby providing cost and environmental benefits.

Specifically contemplated by the invention are compositions comprising one or more ectophosphatase inhibitor(s) in combination with one or more herbicide(s) listed in Table 1. In one embodiment of the invention, the ectophosphatase inhibitor may or may not be a compound selected from formula I-XX. The herbicidal compositions or other compositions formulated for agricultural use, including compositions comprising insecticides and growth regulators, may be used with potentially any plant. The term "plant," as used herein, refers to any type of plant. The inventors have provided below an exemplary description of some plants that may be used with the invention. However, the list is provided for illustrative purposes only and is not limiting, as other types of plants will be known to those of skill in the art and could be used with the invention.

Non-limiting examples of plant genera that may be treated in accordance with the invention include: Abutilon, Amaranthus, Artemisia, Asclepias, Avena, Axonopus, Borreria, Brachiaria, Brassica, Bromus, Chenopodium, Cirsium, Commelina, Convolvulus, Cynodon, Cyperus, Digitaria, Echinochloa, Eleusine, Elymus, Equisetum, Erodium, Helianthus, Imperata, Ipomoea, Kochia, Lolium, Malva, Oryza, Ottochloa, Panicum, Paspalum, Phalaris, Phragmites, Polygonum, Portulaca, Pteridium, Pueraria, Rubus, Salsola, Setaria, Sida, Sinapis, Sorghum, Triticum, Typha, Ulex, Xanthium, and Zea. Non-limiting common types of plants that may be controlled in accordance with the invention include varieties of grasses, broad leafs, succulents, trees and shrubs, barley, black nightshade, broadleaf signal grass, burcumber, chickweed, common ragweed, crabgrass, field pennycress, rough fleabane, foxtail, giant ragweed, goose grass, groundcherry, hemp sesbarria, henbit, jungle rice, kochia, lambs quarters, morning-glory spp., mustard, fall and Texas panicum, palma amaranth, prickly sida (teaweed), red rice, rye, seedling shattercone, shepherd's purse, sicklepod, sprangletop, sunflower, velvet leaf, volunteer corn, common and tall waterhemp, wheat, wild proso millet, witchgrass, wolly cupgrass; and common perennial weeds including Canada thistle, common milkweed, field bindweed, hemp

dogbane, red vine, rhizone johnson grass, tall fescue, trumpet creeper, swamp smartweed and wisteria mukly. Star Thistle, Poison Oak, and Ivy.

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Non-limiting examples of species that may be controlled include velvetleaf (Abutilon theophrasti), pigweed (Amaranthus spp.), buttonweed (Borreria spp.), oilseed rape, canola, indian mustard, etc. (Brassica spp.), commelina (Commelina spp.), filaree (Erodium spp.), sunflower (Helianthus spp.), morningglory (Ipomoea spp.), kochia (Kochia scoparia), mallow (Malva spp.), wild buckwheat, smartweed, etc. (Polygonum spp.), purslane (Portulaca spp.), russian thistle (Salsola spp.), sida (Sida spp.), wild mustard (Sinapis arvensis), cocklebur (Xanthium spp.), wild oat (Avena fatua), carpetgrass (Axonopus spp.), downy brome (Bromus tectorum), crabgrass (Digitaria spp.), barnyardgrass (Echinochloa crus-galli), goosegrass (Eleusine indica), annual ryegrass (Lolium multiflorum), rice (Oryza sativa), ottochloa (Ottochloa nodosa), bahiagrass (Paspalum notatum), canarygrass (Phalaris spp.), foxtail (Setaria spp.), wheat (Triticum aestivum), corn (Zea mays), mugwort (Artemisia spp.), milkweed (Asclepias spp.), canada thistle (Cirsium arvense), field bindweed (Convolvulus arvensis), kudzu (Pueraria spp.), brachiaria (Brachiaria spp.), bermudagrass (Cynodon dactylon), yellow nutsedge (Cyperus esculentus), purple nutsedge (C. rotundus), quackgrass (Elymus repens), lalang (Imperata cylindrica), perennial ryegrass (Lolium perenne), guineagrass (Panicum maximum), dallisgrass (Paspalum dilatatum), reed (Phragmites spp.), johnsongrass (Sorghum halepense), cattail (Typha spp.), horsetail (Equisetum spp.), bracken (Pteridium aquilinum), blackberry (Rubus spp.) and gorse (Ulex europaeus).

Crop and other cultivated species may also be contacted with a composition of the invention. Non-limiting examples of cultivated plants include, but are not limited to, species from the genera Fragaria, Lotus, Medicago, Onobrychis, Trifolium, Trigonella, Vigna, Citrus, Linum, Geranium, Manihot, Daucus, Arabidopsis, Brassica, Raphanus, Sinapis, Atropa, Capsicum, Datura, Hyoscyamus, Lycopersicon, Nicotiana, Helianthus, Lactuca, Bromus, Asparagus, Antirrhinum, Hemerocallis, Nemesia, Pelargonium, Panicum, Pennisetum, Ranunculus, Senecio, Salpiglossis, Cucumis, Bromelia, Glycine, Lolium, Zea, Triticum, Sorghum, Ipomoea, Passifora, Cyclamen, Malus, Prunus, Rosa, Rubus, Populus, Santalum, Allium, Lilium, Narcissus, Ananas, Arachis, Phaseolus, Pisum, Oryza, Hordeum, Gossypium.

A common class of plants exploited in agriculture are vegetable crops, including artichokes, kohlrabi, arugula, leeks, asparagus, lettuce (e.g., head, leaf, romaine), bok choy,

malanga, broccoli, melons (e.g., muskmelon, watermelon, crenshaw, honeydew, cantaloupe), brussels sprouts, cabbage, cardoni, carrots, napa, cauliflower, okra, onions, celery, parsley, chick peas, parsnips, chicory, Chinese cabbage, peppers, collards, potatoes, cucumber plants (marrows, cucumbers), pumpkins, cucurbits, radishes, dry bulb onions, rutabaga, eggplant, salsify, escarole, shallots, endive, garlic, spinach, green onions, squash, greens, beet (sugar beet and fodder beet), sweet potatoes, swiss-chard, horseradish, tomatoes, kale, turnips, and spices.

Other types of plants frequently finding commercial use include fruit and vine crops such as apples, apricots, cherries, nectarines, peaches, pears, plums, prunes, quince almonds, chestnuts, filberts, pecans, pistachios, walnuts, citrus, blueberries, boysenberries, cranberries, currants, loganberries, raspberries, strawberries, blackberries, grapes, avocados, bananas, kiwi, persimmons, pomegranate, pineapple, tropical fruits, pornes, melon, mango, papaya, and lychee.

Many of the most widely grown plants are field crop plants such as evening primrose, meadow foam, corn (field, sweet, popcorn), hops, jojoba, peanuts, rice, safflower, small grains (barley, oats, rye, wheat, etc.), sorghum, tobacco, kapok, leguminous plants (beans, lentils, peas, soybeans), oil plants (rape, mustard, poppy, olives, sunflowers, coconut, castor oil plants, cocoa beans, groundnuts), fiber plants (cotton, flax, hemp, jute), lauraceae (cinnamon, camphor), or plants such as coffee, sugarcane, tea, and natural rubber plants.

Another economically important group of plants are ornamental plants. Examples of commonly grown ornamental plants include alstroemeria (e.g., Alstoemeria brasiliensis), aster, azalea (e.g., Rhododendron sp.), begonias (e.g., Begonia sp.), bellflower, bouganvillea, cactus (e.g., Cactaceae schlumbergera truncata), camellia, carnation (e.g., Dianthus caryophyllus), chrysanthemums (e.g., Chrysanthemum sp.), clematis (e.g., Clematis sp.), cockscomb, columbine, cyclamen (e.g., Cyclamen sp.), daffodils (e.g., Narcissus sp.), false cypress, freesia (e.g., Freesia refracta), geraniums, gerberas, gladiolus (e.g., Gladiolus sp.), holly, hybiscus (e.g., Hibiscus rosasanensis), hydrangea (e.g., Macrophylla hydrangea), juniper, lilies (e.g., Lilium sp.), magnolia, miniroses, orchids (e.g., members of the family Orchidaceae), petunias (e.g., Petunia hybrida), poinsettia (e.g., Euphorbia pulcherima), primroses, rhododendron, roses (e.g., Rosa sp.), snapdragons (e.g., Antirrhinum sp.), shrubs, trees such as forest (broad-leaved trees and evergreens, such as conifers) and tulips (e.g., Tulipa sp.).

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### III. Antibiotics

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Another embodiment of the invention concerns methods and compositions for the contemporaneous administration of ectophosphatase inhibitors and antibiotics. Antibiotics are any chemical of natural or synthetic origin that kill or inhibit the growth of other types cells. Many clinically-useful antibiotics are produced by microorganisms. Antibiotics are typically low molecular-weight (non-protein) molecules produced as secondary metabolites, mainly by microorganisms that live in the soil. Most of these microorganisms form some type of a spore or other dormant cell, and there is thought to be some relationship (besides temporal) between antibiotic production and the processes of sporulation. Among molds, the notable antibiotic producers are Penicillium and Cephalosporium, which are the main source of the beta-lactam antibiotics (penicillin and its relatives). In the Bacteria, the Actinomycetes, notably Streptomyces species, produce a variety of types of antibiotics including the aminoglycosides (e.g. streptomycin), macrolides (e.g. erythromycin), and the tetracyclines. Endospore-forming Bacillus species produce polypeptide antibiotics such as polymyxin and bacitracin. The table below (Table 1) is a summary of the classes of antibiotics and their properties including their biological sources.

As set forth in Table 2, certain aspects of the invention concern compositions comprising an ectophosphatase inhibitor and an antibiotic of a class selected from the group consisting of: beta-lactams (penicillins and cephalosporins); semisynthetic penicillin; clavulanic Acid; monobactams; carboxypenems; aminoglycosides; glycopeptides; lincomycins; macrolides; polypeptides; chloramphenicol; polyenes; rifamycins; tetracyclines; and semisynthetic tetracycline. Any ectophosphatase inhibitor may be used in conjuntion with these classes of antibiotics. In certain embodiments of the invention, the ectophosphatase inhibitor is selected from the group consisting of the compounds of formulas I-XX.

Table 2. Classes of antibiotics and their properties

Chemical class	Examples	Biological source	Spectrum (effective	Mode of action
Macrolides	Erythromycin	Streptomyces erythreus	against) Gram-positive bacteria, Gram-negative bacteria not enterics,	Inhibits translation (protein synthesis)
Polypeptides	Polymyxin	Bacillus polymyxa	Neisseria, Legionella, Mycoplasma Gram-negative bacteria	Damages cytoplasmic membranes
	Bacitracin	Bacillus subtilis	Gram-positive bacteria	Inhibits steps in murein (peptidoglycan) biosynthesis and assembly
Polyenes	Amphotericin	Streptomyces nodosus	Fungi	Inactivate membranes containing sterols
	Nystatin	Streptomyces noursei	Fungi (Candida)	Inactivate membranes containing
Rifamycins	Rifampicin	Streptomyces mediterranei	Gram-positive and Gram- negative bacteria,	Gram-positive and Gram- Inhibits transcription (eubacterial negative bacteria, RNA polymerase)
Tetracyclines	Tetracycline	Streptomycesspecies	tuberculosis Gram-positive and Gram- negative bacteria,	tuberculosis Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria,
Semisynthetic tetracycline	Doxycycline		Rickettsias Gram-positive and Gram- negative bacteria, Rickettsias Ehrlichia,	Rickettsias Gram-positive and Gram- Inhibit translation (protein synthesis) negative bacteria, Rickettsias Ehrlichia,
Chloramphenicol	Chloramphenicol	Streptomyces venezuelae	Borellia Gram-positive and Gram- negative bacteria	Borellia Gram-positive and Gram- Inhibits translation (protein negative bacteria synthesis)

# A. Antimicrobial Agents Used in the Treatment of Infectious Disease

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An important property of a clinically-useful antimicrobial agent, especially from the patient's point of view, is its selective toxicity, *i.e.*, that the agent acts in some way that inhibits or kills bacterial pathogens but has little or no toxic effect on the animal taking the drug. This implies that the biochemical processes in the bacteria are in some way different from those in the animal cells, and that the advantage of this difference can be taken in chemotherapy. Antibiotics may have a cidal (killing) effect or a static (inhibitory) effect on a range of microbes. The range of bacteria or other microorganisms that are affected by a certain antibiotic are is expressed as its spectrum of action. Antibiotics effective against prokaryotes which kill or inhibit a wide range of Gram-positive and Gram-negative bacteria are said to be broad spectrum. If effective against a single organism or disease, they are referred to as limited spectrum. In accordance with the invention, certain adverse effects of antibiotics may be minimized by use of en ectophosphatase inhibitor in combination with the antibiotic, thereby allowing use of lower doses of antibiotics.

# B. Kinds of Antimicrobial Agents and their Primary Modes of Action

In one embodiment of the invention, ectophosphatase inhibitors are used in conjunction with cell wall synthesis inhibitors. Cell wall synthesis inhibitors generally inhibit some step in the synthesis of bacterial peptidoglycan. Generally they exert their selective toxicity against eubacteria because human cells lack cell walls.

Beta lactam antibiotics contain a 4-membered beta lactam ring. They are the products of two groups of fungi, Penicillium and Cephalosporium molds, and are correspondingly represented by the penicillins and cephalosporins. The beta lactam antibiotics inhibit the last step in peptidoglycan synthesis, the final cross-linking between peptide side chains, mediated by bacterial carboxypeptidase and transpeptidase enzymes. Beta lactam antibiotics are normally bactericidal and require that cells be actively growing in order to exert their toxicity.

Natural penicillins, such as Penicillin G or Penicillin V, are produced by fermentation of Penicillium chrysogenum. They are effective against streptococcus, gonococcus and staphylococcus, except where resistance has developed. They are considered narrow spectrum since they are not effective against Gram-negative rods.

Semisynthetic penicillins date to 1959. Mold produces a main part of the penicillin molecule (6-aminopenicillanic acid) which can be modified chemically by the addition of side chains. Many of these compounds have been developed to have distinct benefits or advantages over penicillin G, such as increased spectrum of activity (effectiveness against Gram-negative rods), resistance to penicillinase, effectiveness when administered orally, etc. Amoxycillin and Ampicillin have broadened spectra against Gram-negatives and are effective orally; Methicillin is penicillinase-resistant.

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Clavulanic acid is a chemical sometimes added to a semisynthetic penicillin preparation. Thus, amoxycillin plus clavulanate is clavamox or augmentin. The clavulanate is not an antimicrobial agent. It inhibits beta lactamase enzymes and has given extended life to penicillinase-sensitive beta lactams.

Although nontoxic, penicillins occasionally cause death when administered to persons who are allergic to them. In the U.S. there are 300 - 500 deaths annually due to penicillin allergy. In allergic individuals the beta lactam molecule attaches to a serum protein which initiates an IgE-mediated inflammatory response.

Cephalolsporins are beta lactam antibiotics with a similar mode of action to penicillins that are produced by species of Cephalosporium. The have a low toxicity and a somewhat broader spectrum than natural penicillins. They are often used as penicillin substitutes, against Gram-negative bacteria, and in surgical prophylaxis. They are subject to degradation by some bacterial beta-lactamases, but they tend to be resistant to beta-lactamases from *S. aureus*.

Bacitracin is a polypeptide antibiotic produced by Bacillus species. It prevents cell wall growth by inhibiting the release of the muropeptide subunits of peptidoglycan from the lipid carrier molecule that carries the subunit to the outside of the membrane Teichoic acid synthesis, which requires the same carrier, is also inhibited. Bacitracin has a high toxicity which precludes its systemic use. It is present in many topical antibiotic preparations, and since it is not absorbed by the gut, it is given to "sterilize" the bowel prior to surgery.

Cell membrane inhibitors disorganize the structure or inhibit the function of bacterial membranes. The integrity of the cytoplasmic and outer membranes is vital to bacteria, and compounds that disorganize the membranes rapidly kill the cells. However, due to the similarities in phospholipids in eubacterial and eukaryotic membranes, this action is rarely

specific enough to permit these compounds to be used systemically. The only antibacterial antibiotic of clinical importance that acts by this mechanism is Polymyxin, produced by *Bacillus polymyxis*. Polymyxin is effective mainly against Gram-negative bacteria and is usually limited to topical usage. Polymyxins bind to membrane phospholipids and thereby interfere with membrane function. Polymyxin is occasionally given for urinary tract infections caused by *Pseudomonas* that are gentamicin, carbenicillin and tobramycin resistant. The balance between effectiveness and damage to the kidney and other organs is dangerously close, and the drug should only be given under close supervision in the hospital.

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In accordance with the invention, ectophosphatase inhibitors may also be contemporaneously administered and formulated in compositions with antibiotics that are protein synthesis inhibitors. Many therapeutically useful antibiotics inhibit some step in the complex process of translation. The attack is at one of the events occurring on the ribosome, rather than the stage of amino acid activation or attachment to a particular tRNA. Most have an affinity or specificity for 70S (as opposed to 80S) ribosomes, and they achieve their selective toxicity in this manner. The most important antibiotics with this mode of action are the tetracyclines, chloramphenicol, the macrolides (e.g. erythromycin) and the aminoglycosides (e.g. streptomycin).

The aminoglycosides are products of *Streptomyces* species and are represented by streptomycin, kanamycin, tobramycin and gentamicin. These antibiotics exert their activity by binding to bacterial ribosomes and preventing the initiation of protein synthesis. Aminoglycosides have been used against a wide variety of bacterial infections caused by Grampositive and Gram-negative bacteria. Streptomycin has been used extensively as a primary drug in the treatment of tuberculosis. Gentamicin is active against many strains of Gram-positive and Gram-negative bacteria, including some strains of *Pseudomonas aeruginosa*. Kanamycin (a complex of three antibiotics, A, B and C) is active at low concentrations against many Grampositive bacteria, including penicillin-resistant staphylococci. Gentamicin and Tobramycin are mainstays for treatment of *Pseudomonas* infections. An unfortunate side effect of aminoglycosides has tended to restrict their usage: prolonged use is known to impair kidney function and cause damage to the auditory nerves leading to deafness.

The tetracyclines consist of eight related antibiotics which are all natural products of Streptomyces, although some can now be produced semisynthetically. Tetracycline,

chlortetracycline and doxycycline are the best known. The tetracyclines are broad-spectrum antibiotics with a wide range of activity against both Gram-positive and Gram-negative bacteria. The tetracyclines act by blocking the binding of aminoacyl tRNA to the A site on the ribosome. Tetracyclines inhibit protein synthesis on isolated 70S or 80S (eukaryotic) ribosomes, and in both cases, their effect is on the small ribosomal subunit. However, most bacteria possess an active transport system for tetracycline that will allow intracellular accumulation of the antibiotic at concentrations 50 times as great as that in the medium. This greatly enhances its antibacterial effectiveness and accounts for its specificity of action, since an effective concentration cannot be accumulated in animal cells. Thus a blood level of tetracycline which is harmless

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The tetracyclines have a remarkably low toxicity and minimal side effects when taken by animals. The combination of their broad spectrum and low toxicity has led to their overuse and misuse by the medical community and the wide-spread development of resistance has reduced their effectiveness. Nonetheless, tetracyclines still have some important uses, such as in the treatment of Lyme disease.

Chloramphenicol has a broad spectrum of activity but it exerts a bacteriostatic effect. It is effective against intracellular parasites such as the rickettsiae. Unfortunately, aplastic anemia, which is dose related develops in a small proportion (1/50,000) of patients. Chloramphenicol was originally discovered and purified from the fermentation of a *Streptomyces*, but currently it is produced entirely by chemical synthesis. Chloramphenicol inhibits the bacterial enzyme peptidyl transferase thereby preventing the growth of the polypeptide chain during protein synthesis.

Chloramphenicol is entirely selective for 70S ribosomes and does not affect 80S ribosomes. Its unfortunate toxicity towards the small proportion of patients who receive it is in no way related to its effect on bacterial protein synthesis. However, since mitochondria probably originated from prokaryotic cells and have 70S ribosomes, they are subject to inhibition by some of the protein synthesis inhibitors including chloroamphenicol. This likely explains the toxicity of chloramphenicol. The eukaryotic cells most likely to be inhibited by chloramphenicol are those undergoing rapid multiplication, thereby rapidly synthesizing mitochondria. Such cells include the blood forming cells of the bone marrow, the inhibition of which could present as aplastic anemia. Chloramphenicol was once a highly prescribed antibiotic and a number of

deaths from anemia occurred before its use was curtailed. Now it is seldom used in human medicine except in life-threatening situations (e.g. typhoid fever).

The Macrolides are a family of antibiotics whose structures contain large lactone rings linked through glycoside bonds with amino sugars. The most important members of the group are erythromycin and oleandomycin. Erythromycin is active against most Gram-positive bacteria, *Neisseria*, *Legionella* and *Haemophilus*, but not against the Enterobacteriaceae. Macrolides inhibit bacterial protein synthesis by binding to the 50S ribosomal subunit. Binding inhibits elongation of the protein by peptidyl transferase or prevents translocation of the ribosome or both. Macrolides are bacteriostatic for most bacteria but are cidal for a few Grampositive bacteria.

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In further embodiments of the invention, ectophosphatase inhibitors may be contemporaneously administered and formulated in compositions with antibiotics that affect nucleic acids, including chemotherapeutic agents that affect the synthesis of DNA or RNA, or can bind to DNA or RNA so that their messages cannot be read. In either case, this can block the growth of cells. The majority of these drugs are unselective, however, and affect animal cells and bacterial cells alike and therefore have no therapeutic application. Two nucleic acid synthesis inhibitors which have selective activity against prokaryotes and some medical utility are nalidixic acid and rifamycins.

Nalidixic acid is a synthetic chemotherapeutic agent which has activity mainly against Gram-negative bacteria. Nalidixic acid belongs to a group of compounds called quinolones. Nalidixic acid is a bactericidal agent that binds to the DNA gyrase enzyme (topoisomerase) which is essential for DNA replication and allows supercoils to be relaxed and reformed. Binding of the drug inhibits DNA gyrase activity.

Some quinolones penetrate macrophages and neutrophils better than most antibiotics and are thus useful in treatment of infections caused by intracellular parasites. However, the main use of nalidixic acid is in treatment of lower urinary tract infections (UTI). The compound is unusual in that it is effective against several types of Gram-negative bacteria such as *E. coli*, *Enterobacter aerogenes*, *K. pneumoniae* and *Proteus* species which are common causes of UTI. It is not usually effective against *Pseudomonas aeruginosa*, and Gram-positive bacteria are resistant.

The rifamycins are also the products of *Streptomyces*. Rifampicin is a semisynthetic derivative of rifamycin that is active against Gram-positive bacteria (including *Mycobacterium tuberculosis*) and some Gram-negative bacteria. Rifampicin acts quite specifically on eubacterial RNA polymerase and is inactive towards RNA polymerase from animal cells or towards DNA polymerase. The antibiotic binds to the beta subunit of the polymerase and apparently blocks the entry of the first nucleotide which is necessary to activate the polymerase, thereby blocking mRNA synthesis. It has been found to have greater bactericidal effect against *M. tuberculosis* than other anti-tuberculosis drugs, and it has largely replaced isoniazid as one of the front-line drugs used to treat the disease, especially when isoniazid resistance is indicated. It is effective orally and penetrates well into the cerebrospinal fluid and is therefore useful for treatment of tuberculosis meningitis and meningitis caused by *Neisseria meningitidis*.

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In accordance with the invention, ectophosphatase inhibitors may also be administered with competitive inhibitors, including mostly all synthetic chemotherapeutic agents. Most are "growth factor analogs" which are structurally similar to a bacterial growth factor but which do not fulfill its metabolic function in the cell. Some are bacteriostatic and some are bactericidal.

Sulfonamides were originally introduced as chemotherapeutic agents, one of which, prontosil, had the effect of curing mice with infections caused by beta-hemolytic streptococci. Chemical modifications of the compound sulfanilamide gave compounds with even higher and broader antibacterial activity. The resulting sulfonamides have broadly similar antibacterial activity, but differ widely in their pharmacological actions. Bacteria which are almost always sensitive to the sulfonamides include *Streptococcus pneumoniae*, beta-hemolytic streptococci and *E. coli*. The sulfonamides have been extremely useful in the treatment of uncomplicated UTI caused by *E. coli*, and in the treatment of meningococcal meningitis, because they cross the blood-brain barrier.

The sulfonamides (e.g. Gantrisin) and Trimethoprim are inhibitors of the bacterial enzymes required for the synthesis of tetrahydofolic acid (THF), the vitamin form of folic acid essential for 1-carbon transfer reactions. Sulfonamides are structurally similar to para aminobenzoic acid (PABA), the substrate for the first enzyme in the THF pathway, and they competitively inhibit that step. Trimethoprim is structurally similar to dihydrofolate (DHF) and competitively inhibits the second step in THF synthesis mediated by the DHF reductase. Animal cells do not synthesize their own folic acid but obtain it in a preformed fashion as a vitamin.

Since animals do not make folic acid, they are not affected by these drugs, which achieve their selective toxicity for bacteria on this basis.

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Three additional synthetic chemotherapeutic agents have been used in the treatment of tuberculosis: isoniazid (INH), paraaminosalicylic acid (PAS), and ethambutol. The usual strategy in the treatment of tuberculosis has been to administer a single antibiotic (historically streptomycin, but now, most commonly, rifampicin is given) in conjunction with INH and ethambutol. Since the tubercle bacillus rapidly develops resistance to the antibiotic, ethambutol and INH are given to prevent outgrowth of a resistant strain. It must also be pointed out that the tubercle bacillus rapidly develops resistance to ethambutol and INH if either drug is used alone. Ethambutol inhibits incorporation of mycolic acids into the mycobacterial cell wall. Isoniazid has been reported to inhibit mycolic acid synthesis in mycobacteria and since it is an analog of pyridoxine (Vitamin B6) it may inhibit pyridoxine catalyzed reactions as well. Isoniazid is activated by a mycobacterial peroxidase enzyme and destroys several targets in the cell. PAS is an anti-folate. PAS was once a primary anti-tuberculosis drug, but now it is a secondary agent, having been largely replaced by ethambutol.

# C. Inhibition of Drug Resistance in Microorganisms to Treat Infection

The present invention also relates to methods for inhibiting or ameliorating infection in animals and humans caused by microorganisms. For example, treatment of bacterial and fungal infections may be augmented or effected using inhibitory mechanisms against an ectophosphatase to modify the ATP gradient across biological membranes. The invention is useful in the inhibition or amelioration of a wide range of infections including, but not limited to, gram negative bacterial infection including gram-negative sepsis, gram-negative endotoxin-related hypotension and shock, rabies, cholera, tetanus, lymes disease, tuberculosis, Candida albicans, Chlamydia, etc.

The inhibition or amelioration of the infections may involve the administration of an antimicrobial agent (such as an antibiotic or an antifungal agent) with the concurrent administration of the aforementioned compositions. Additionally, inhibitors of ectophosphatases or ABC transporters may be administered via a physiologically acceptable carrier as described above. In one embodiment of the invention, the inhibitor of ectophosphatase is selected from the compounds represented by formulas I-XX.

Certain aspects of the current invention thus concern the inhibition of cell growth by contacting a cell with an inhibitor of an ectophosphatase with contemporaneous administration of other agents capable of inhibiting cell growth or killing the cell. In this manner, therapeutic benefit may be obtained for the treatment of bacterial infections. Examples of types of bacteria that could be inhibited and bacterial infections that could potentially be treated or prevented with the invention, include, but are not limited to, the 83 or more distinct serotypes of pneumococci. streptococci such as S. pyogenes, S. agalactiae, S. equi, S. canis, S. bovis, S. equinus, S. anginosus, S. sanguis, S. salivarius, S. mitis, S. mutans, other viridans streptococci, peptostreptococci, other related species of streptococci, enterococci such as Enterococcus faecalis, Enterococcus faecium, Staphylococci, such as Staphylococcus epidermidis, Staphylococcus aureus, particularly in the nasopharynx, Hemophilus influenzae, pseudomonas species such as Pseudomonas aeruginosa, Pseudomonas pseudomallei, Pseudomonas mallei, brucellas such as Brucella melitensis, Brucella suis, Brucella abortus, Bordetella pertussis, Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis, Corynebacterium diphtheriae, Corynebacterium ulcerans, Corynebacterium pseudotuberculosis, Corynebacterium pseudodiphtheriticum, Corynebacterium urealyticum, Corynebacterium Corynebacterium equi, etc. Listeria monocytogenes, Nocordia asteroides, Bacteroides species, Actinomycetes species, Treponema pallidum, Leptospirosa species and related organisms. The invention may also find use, for example, against gram negative bacteria such as Klebsiella pneumoniae, Escherichia coli, Proteus, Serratia species, Acinetobacter, Yersinia pestis, Francisella tularensis, Enterobacter species, Bacteriodes and Legionella species and the like.

### IV. Chemotherapeutics

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A variety of chemotherapeutic agents are suitable for use with the invention and are known to those of skill in the art. In accordance with the invention, therapeutic benefit may be obtained by contemporaneous administration of one or more ectophosphatase inhibitor and one or more such chemotherapeutic agent(s). Co-administration of chemotherapeutics with ectophosphatase inhibitors in accordance with the invention may be used to increase therapeutic effectiveness of a chemotherapeutic and may allow use of lowered doses. Such techniques may further allow treatment of chemotherapy-resistant tumor cells.

As will be understood by those of ordinary skill in the art, the appropriate doses of chemotherapeutic agents will be generally around those already employed in clinical therapies wherein the chemotherapeutics are administered alone or in combination with other chemotherapeutics. By way of example only, agents such as cisplatin, and other DNA alkylating agents may be used with an ectophosphatase inhibitor. Cisplatin has been widely used to treat cancer, with efficacious doses used in clinical applications of 20 mg/m² for 5 days every three weeks for a total of three courses. Cisplatin is not absorbed orally and must therefore be delivered via injection intravenously, subcutaneously, intratumorally or intraperitoneally.

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Further agents for use with ectophosphatase inhibitors in accordance with the invention include, for example, compounds that interfere with DNA replication, mitosis and chromosomal segregation. Such chemotherapeutic compounds include adriamycin, also known as doxorubicin, etoposide, verapamil, podophyllotoxin, and the like. Widely used in a clinical setting for the treatment of neoplasms, these compounds are administered through bolus injections intravenously at doses ranging from 25-75 mg/m<sup>2</sup> at 21 day intervals for adriamycin, to 35-50 mg/m<sup>2</sup> for etoposide intravenously or double the intravenous dose orally.

Agents that disrupt the synthesis and fidelity of polynucleotide precursors also may be used with ectophosphatase inhibitors. Particularly useful are agents that have undergone extensive testing and are readily available. As such, agents such as 5-fluorouracil (5-FU) are preferentially used by neoplastic tissue, making this agent particularly useful for targeting to neoplastic cells. Although quite toxic, 5-FU is applicable in a wide range of carriers, including topical, with intravenous administration in doses ranging from 3 to 15 mg/kg/day being commonly used.

Exemplary and non-limiting chemotherapeutic agents for use in combination with an ectophosphatase inhibitor in accordance with the invention are listed in Table 3. Accordingly, compositions comprising these agents and one or more ectophosphatase inhibitor(s) form one part of the invention, as do methods for the administration thereof. Each of the agents listed below are exemplary and by no means limiting. In this regard, the skilled artisan is directed to "Remington's Pharmaceutical Sciences" 15th Edition, chapter 33, in particular pages 624-652. Some variation in dosage will necessarily occur depending on the condition of the subject being treated. The person responsible for administration will, in any event, determine the appropriate dose for the individual subject. Moreover, for human administration, preparations should meet

sterility, pyrogenicity, general safety and purity standards as required by FDA Office of Biologics standards.

Specifically contemplated by the inventors are compositions comprising and ectophosphatase inhibitor and a chemotherapeutic agent set forth in Table 3., as well as methods comprising the use thereof

Table 3: Chemotherapeutic Agents Useful In Neoplastic Disease

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		NONPROPRIETARY	
CLASS	TYPE OF	NAMES	DISEASE
	AGENT	(OTHER NAMES)	
		Mechlorethamine (HN <sub>2</sub> )	Hodgkin's disease,
		/	non-Hodgkin's lymphomas
	Nitrogen	Cyclophosphamide	Acute and chronic
	Mustards	Ifosfamide	lymphocytic leukemias,
	•		Hodgkin's disease,
			non-Hodgkin's lymphomas,
		· ·	multiple myeloma,
		·	neuroblastoma, breast, ovary,
			lung, Wilms' tumor, cervix,
		Molpholon (v. gorgolysis)	testis, soft-tissue sarcomas
		Melphalan (L-sarcolysin)	Multiple myeloma, breast, ovary
		Chlorambucil	Chronic lymphocytic
			leukemia, primary
,	•		macroglobulinemia,
		e e	Hodgkin's disease,
144 4	····		non-Hodgkin's lymphomas
Alkylating	Ethylenimenes	Hexamethylmelamine	Ovary
Agents	and		
	Methylmelamin		
	es		
		Thiotepa	Bladder, breast, ovary
	Alkyl Sulfonates	Busulfan	Chronic granulocytic leukemia
		Carmustine (BCNU)	Hodgkin's disease,
			non-Hodgkin's lymphomas,
·			primary brain tumors, multiple
			myeloma, malignant
			melanoma
	Nitrosoureas	Lomustine (CCNU)	Hodgkin's disease,
			non-Hodgkin's lymphomas,
			primary brain tumors,
			small-cell lung

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
		Semustine (methyl-CCNU)	Primary brain tumors, stomach, colon
		Streptozocin (streptozotocin)	Malignant pancreatic insulinoma, malignant carcinoid
	Triazines	Dacarbazine (DTIC; dimethyltriazenoimidaz olecarboxamide)	Malignant melanoma, Hodgkin's disease, soft-tissue sarcomas
Antimetabolite s	Folic Acid Analogs	Methotrexate (amethopterin)	Acute lymphocytic leukemia, choriocarcinoma, mycosis fungoides, breast, head and neck, lung, osteogenic sarcoma
	Pyrimidine Analogs	Fluouracil (5-fluorouracil; 5-FU) Floxuridine (fluorode-oxyuridine; FUdR)	Breast, colon, stomach, pancreas, ovary, head and neck, urinary bladder, premalignant skin lesions (topical)
Antimetabolite s, continued		Cytarabine (cytosine arabinoside)	Acute granulocytic and acute
s, commucu	·	Mercaptopurine (6-mercaptopurine; 6-MP)	lymphocytic leukemias Acute lymphocytic, acute granulocytic and chronic granulocytic leukemias
	Purine Analogs and Related Inhibitors	Thioguanine (6-thioguanine; TG)	Acute granulocytic, acute lymphocytic and chronic granulocytic leukemias
		Pentostatin (2-deoxycoformycin)	Hairy cell leukemia, mycosis fungoides, chronic lymphocytic leukemia
		Vinblastine (VLB)	Hodgkin's disease, non-Hodgkin's lymphomas, breast, testis
	Vinca Alkaloids	Vincristine	Acute lymphocytic leukemia, neuroblastoma, Wilms' tumor, rhabdomyosarcoma, Hodgkin's disease, non-Hodgkin's lymphomas, small-cell lung
·	Epipodophyllot oxins	Etoposide Tertiposide	Testis, small-cell lung and other lung, breast, Hodgkin's disease, non-Hodgkin's lymphomas, acute granulocytic leukemia, Kaposi's sarcoma

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
Natural Products		Dactinomycin (actinomycin D)	Choriocarcinoma, Wilms' tumor, rhabdomyosarcoma, testis, Kaposi's sarcoma
		Daunorubicin (daunomycin; rubidomycin)	Acute granulocytic and acute lymphocytic leukemias
	Antibiotics	Doxorubicin	Soft-tissue, osteogenic and other sarcomas; Hodgkin's disease, non-Hodgkin's lymphomas, acute leukemias, breast, genitourinary, thyroid, lung, stomach, neuroblastoma
		Bleomycin	Testis, head and neck, skin, esophagus, lung and genitourinary tract; Hodgkin's disease, non-Hodgkin's lymphomas
	Antibiotics, continued	Plicamycin (mithramycin)	Testis, malignant hypercalcemia
Natural Products, continued		Mitomycin (mitomycin C)	Stomach, cervix, colon, breast, pancreas, bladder, head and neck
	Enzymes	L-Asparaginase	Acute lymphocytic leukemia
	Biological Response Modifiers	Interferon alfa	Hairy cell leukemia., Kaposi's sarcoma, melanoma, carcinoid, renal cell, ovary, bladder, non-Hodgkin's lymphomas, mycosis fungoides, multiple myeloma, chronic granulocytic leukemia
	Platinum Coordination Complexes	Cisplatin (cis-DDP) Carboplatin	Testis, ovary, bladder, head and neck, lung, thyroid, cervix, endometrium, neuroblastoma, osteogenic sarcoma
	Anthracenedion e	Mitoxantrone	Acute granulocytic leukemia, breast
Miscellaneous Agents	Substituted Urea	Hydroxyurea	Chronic granulocytic leukemia, polycythemia vera, essental thrombocytosis, malignant melanoma
	Methyl Hydrazine Derivative	Procarbazine (N-methylhydrazine, MIH)	Hodgkin's disease
	Adrenocortical	Mitotane (o,p'-DDD)	Adrenal cortex

CLASS	TYPE OF AGENT	NONPROPRIETARY NAMES (OTHER NAMES)	DISEASE
	Suppressant	Aminoglutethimide	Breast
·	Adrenocorticost eroids	Prednisone (several other equivalent preparations available)	Acute and chronic lymphocytic leukemias, non-Hodgkin's lymphomas, Hodgkin's disease, breast
Hormones and Antagonists	Progestins	Hydroxyprogesterone caproate Medroxyprogesterone acetate Megestrol acetate	Endometrium, breast
	Estrogens	Diethylstilbestrol Ethinyl estradiol (other preparations available)	Breast, prostate
, ,	Antiestrogen	Tamoxifen	Breast
	Androgens	Testosterone propionate Fluoxymesterone (other preparations available)	Breast
	Antiandrogen	Flutamide	Prostate
	Gonadotropin-re leasing hormone analog	Leuprolide	Prostate

Administration of compositions provided by the invention may be local or systemic, using a suitable physiological carrier. Other compounds which aid in the uptake or stability of these agents, or which have beneficial activity, may also be included in the formulations of the invention. Certain embodiments of the invention thus provide pharmaceutical composition comprising an ectophosphatase inhibitor. The composition may further comprise, in certain embodiments, a cytotoxic agent, including a chemotherapeutic agent set forth herein. For example, by contacting a tumor cell either alone with the ectophosphatase inhibitor or in combination with one or more chemotherapeutic agents, therapeutic benefit may be obtained. Particular benefit may be obtained where a tumor cell is resistant to at least one chemotherapeutic agent. This may enhance the overall anti-tumor activity achieved by therapy, and/or may be used to prevent or combat multi-drug tumor resistance.

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# V. Assays and Methods for Screening Active Compounds

In one embodiment of the invention, assays are provided for screening compositions comprising combinations of ectophosphatase inhibitors and a selected cytotoxic agent, for example, a herbicide, fungicide, antibiotic, insecticide or chemotherapeutic agent. A number of assay formats are known to those of skill in the art and may be used in this regard. These include assays of biological activities as well as assays of chemical properties. The results of these assays provide important inferences as to the properties of compounds as well as their potential applications in treating human or other mammalian patients for infection and hyperproliferative diseases as well as in various agricultural applications. Assays deemed to be of particular utility in this regard include *in vivo* and *in vitro* screens of activity and immunoassays.

### (i) Screening for Herbicidal Activity

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One aspect of the current invention provides herbicidal compositions having improved herbicidal activity. In accordance with the invention, assays for herbicidal activity may be used to asses the relative efficacy of combinations of ectophosphatase inhibitors and herbicidal agents. Numerous assays formats for analyzing herbicidal activity are known to those of skill in the art and may be used in this regard. A straightforward means for testing activity comprises the serial application of test compositions to plants and/or plant parts, for example, by leaf painting. Plants are otherwise grown under comparable conditions, followed by serial applications of test and control compositions are applied. Control treatments may be used comprising herbicide compositions lacking ectophosphatase inhibitors, thereby identifying the presence of absence of activity as a syngerist. Herbicidal activity is then measured by analysis of the effect of the composition on plant viability.

Commercial herbicide formulations are well known to those of skill in the art and will generally be used in assays. However, it will typically be preferred to dilute herbicidal compositions and/or administer reduced amounts of the compositions such that the relative herbicidal activity of a composition may be quantified. Reductions in the lethality of herbicidal compositions allows the identification of effectiveness between herbicidal compositions. Thus, in particular embodiments of the invention, test and control compositions are administered in rates and/or amounts of from about 90% to about 5% of the commercial application rate for a given herbicide.

Following application of herbicidal test compositions, herbicidal activity and effectiveness is measured. Through comparisons with applications of control compositions, the effectiveness of the compositions may be determined.

Tests may be carried out on whole plants as well as plant parts or cell. For example, plant cells in tissue culture may be screened for herbicidal activity. The preparation of plant tissue cultures is well known to those of skill in the art.

### (ii) In vivo Assays

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The present invention encompasses the use of various animal models. Here, the identity seen between human and mouse provides an excellent opportunity to examine the function of a potential therapeutic agent, for example, an antiinfective or chemotherapeutic administered in combination with an ectophosphatase inhibitor. In the case of chemotherapeutics, one can utilize cancer models in mice that will be highly predictive of cancers in humans and other mammals. These models may employ the orthotopic or systemic administration of tumor cells to mimic primary and/or metastatic cancers. Alternatively, one may induce cancers in animals by providing agents known to be responsible for certain events associated with malignant transformation and/or tumor progression. Similarly, numerous animal models are available for analysis of antinfectives, including insecticides, antibiotics and antifungal agents. In this manner, all that is commonly required is infection of the relevant animal with a target infective agent and analysis of therapeutic benefit relative to prior antiinfective compositions.

Treatment of animals with test compositions will involve the administration of the composition, in an appropriate form, to the animal. Administration will be by any route the could be utilized for clinical or non-clinical purposes, including but not limited to oral, nasal, buccal, rectal, vaginal or topical. Alternatively, administration may be by intratracheal instillation, bronchial instillation, intradermal, subcutaneous, intramuscular, intraperitoneal or intravenous injection. Specifically contemplated are systemic intravenous injection, regional administration via blood or lymph supply and intratumoral injection.

Determining the effectiveness of a compound *in vivo* may involve a variety of different criteria. Such criteria include, but are not limited to, survival, reduction of tumor burden or mass, arrest or slowing of tumor progression, elimination of tumors, inhibition or prevention of metastasis, increased activity level, improvement in immune effector function and improved

food intake. Through comparisons of active agents alone and active agents in combination with ectophosphatase inhibitors, synergistic combinations may be readily confirmed.

## (iii) Confirmatory In vivo and Clinical Studies

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It will be understood by those of skill in the art that therapeutic compositions should generally be tested in an *in vivo* setting prior to use in a human subject. Such pre-clinical testing in animals is routine in the art. To conduct such confirmatory tests, all that is required is an art-accepted animal model of the disease in question, such as an animal bearing a solid tumor or infective agent. Any animal may be used in such a context, such as, *e.g.*, a mouse, rat, guinea pig, hamster, rabbit, dog, chimpanzee, or such like. Studies using small animals such as mice are widely accepted as being predictive of clinical efficacy in humans, and such animal models may thus find use in the context of the present invention as they are readily available and relatively inexpensive, at least in comparison to other experimental animals.

The manner of conducting an experimental animal test will be straightforward to those of ordinary skill in the art. All that is required to conduct such a test is to establish equivalent treatment groups, and to administer the test compounds to one group while various control studies are conducted in parallel on the equivalent animals in the remaining group or groups. One monitors the animals during the course of the study and, ultimately, one sacrifices the animals to analyze the effects of the treatment.

In the context of the treatment of tumors, it is contemplated that effective amounts of chemotherapeutic compositions will be those that generally result in at least about 10% of the cells within a tumor exhibiting cell death or apoptosis. Preferably, at least about 20%, about 30%, about 40%, or about 50%, of the cells at a particular tumor site will be killed. Most preferably, 100% of the cells at a tumor site will be killed.

The extent of cell death in a tumor is assessed relative to the maintenance of healthy tissues in all of the areas of the body. It will be preferable to use doses of chemotherapeutic compositions capable of inducing at least about 60%, about 70%, about 80%, about 85%, about 90%, about 95% up to and including 100% tumor necrosis, so long as the doses used do not result in significant side effects or other untoward reactions in the animal. All such determinations can be readily made and properly assessed by those of ordinary skill in the art. For example, attendants, scientists and physicians can utilize such data from experimental

animals in the optimization of appropriate doses for human treatment. In subjects with advanced disease, a certain degree of side effects can be tolerated. However, patients in the early stages of disease can be treated with more moderate doses in order to obtain a significant therapeutic effect in the absence of side effects. The effects observed in such experimental animal studies should preferably be statistically significant over the control levels and should be reproducible from study to study.

Those of ordinary skill in the art will further understand that combinations and doses of the compositions provided by the invention that result in tumor-specific necrosis towards the lower end of the effective ranges may nonetheless still be useful in connection with the present invention. For example, in embodiments where a continued application of the active agents is contemplated, an initial dose that results in only about 10% necrosis will nonetheless be useful, particularly as it is often observed that this initial reduction "primes" the tumor to further destructive assault upon subsequent re-application of the therapy. In any event, even if upwards of about 40% or so tumor inhibition is not ultimately achieved, it will be understood that any induction of thrombosis and necrosis is nonetheless useful in that it represents an advance over the state of the patients prior to treatments. Still further, it is contemplated that a dose which prevents or decreases the likelihood of either metastasis or *de novo* carcinogenesis would also be of therapeutic benefit to a patient receiving the treatment.

As discussed above in connection with the *in vitro* test system, it will naturally be understood that combinations of agents intended for use together should be tested and optimized together. The compositions of the invention can be straightforwardly analyzed in the combinations set forth herein. Analysis of the combined effects of such agents would be determined and assessed according to the guidelines set forth above.

### (iv) In vitro Assays

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In one embodiment of the invention, screening of a composition provided by the invention is conducted *in vitro* to identify those compounds capable of synergizing therapeutic agents, including cytotoxic agents such as antibiotics, fungicides and chemotherapeutic agents, as well as other types of biologically-active agents. In the case of killing of tumor cells, cytotoxicity is generally exhibited by necrosis or apoptosis. Necrosis is a relatively common pathway triggered by external signals. During this process, the integrity of the cellular membrane and cellular compartments is lost. On the other hand, apoptosis, or programmed cell

death, is a highly organized process of morphological events that is synchronized by the activation and deactivation of specific genes (Thompson et al., 1992; Wyllie, 1985). In the case of pesticides, the selective cytotoxic action against the infective agent, including an insect, bacterial or fungal pathogen, is typically analyzed.

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An efficacious means for *in vitro* assaying of cytoxicity comprises the systematic exposure of a panel of cells to selected compositions. For example, in the case of cancer, many tumor cell lines are available for implementing assays, including human ovarian, leukemic, breast, prostate, melanoma and renal cancer cells.

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In vitro determinations of the efficacy of a compound in killing tumor cells may be achieved, for example, by assays of the expression and induction of various genes involved in cell-cycle arrest (p21, p27; inhibitors of cyclin dependent kinases) and apoptosis (bcl-2, bcl-x<sub>L</sub> and bax). To carry out this assay, cells are treated with the test compound, lysed, the proteins isolated, and then resolved on SDS-PAGE gels and the gel-bound proteins transferred to nitrocellulose membranes. The membranes are first probed with the primary antibodies (e.g., antibodies to p21, p27, bax, bcl-2 and bcl-x<sub>I</sub>, etc.) and then detected with diluted horseradish peroxidase conjugated secondary antibodies, and the membrane exposed to ECL detection reagent followed by visualization on ECL-photographic film. Through analysis of the relative proportion of the proteins, estimates may be made regarding the percent of cells in a given stage,

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# VI. Examples

for example, the G0/G1 phase, S phase or G2/M phase.

The following examples are included to demonstrate preferred embodiments of the invention. It should be appreciated by those of skill in the art that the techniques disclosed in the examples which follow represent techniques discovered by the inventor to function well in the practice of the invention, and thus can be considered to constitute preferred modes for its practice. However, those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments which are disclosed and still obtain a like or similar result without departing from the spirit and scope of the invention.

## **EXAMPLE 1**

# Inhibition of Antibiotic Resistant Bacteria With Ectophosphatase Inhibitors

### A. Summary of Protocol and Results

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The purpose of this study was to evaluate various ectophosphatase inhibitor compounds for any potentiating effect or resistance reversal with methicillin resistant *Staphylococcus aureus* (MRSA). Two strains of *Staphylococcus aureus* were obtained from the American Type Culture Collection (ATCC). Those obtained were a previously characterized methicillin resistant strain (# 43300) and a previously characterized methicillin sensitive strain (# 29213) to serve as a control. Strains were received as lyophilized pellets and were rehydrated according to the ATCC Product Information Sheet using Trypticase Soy Broth.

Mueller-Hinton agar plates were prepared containing 1 of 6 inhibitor compounds investigated. The compounds were dissolved in DMSO at concentrations of 20 mg/ml. 25  $\mu$ l of this stock solution was added to 25 mls of media just prior to cooling to solidification to produce plates containing 20  $\mu$ g/ml of inhibitor compound. Control plates containing 25  $\mu$ l DMSO only were also prepared in the same fashion.

For each of the two strains, 5 isolated colonies were picked from overnight culture plates and used to inoculate a 0.85% NaCl solution. The turbidity of each culture was adjusted using 0.85% NaCl until the turbidity of each matched a 0.5 McFarland turbidity standard. Each strain was swabbed onto control plates. The MRSA strain was swabbed also onto the inhibitor plates. Plates were allowed to dry for 5 minutes. A disk containing 5 µg of methicillin (obtained for the purpose of susceptibility testing from Bioanalyse Co., Ltd.) was placed onto the surface of all plates. Plates were incubated at 37°C.

Plates were read after 24 hours. It was noticed at this time that one plate, containing inhibitor compound NGXT1914 (Formula XV), was clear--there was no bacterial growth at all. All other plates had confluent growth except at the zone of inhibition of the methicillin disk.

Protocols for the studies were according to NCCLS guidelines (M2-A7, M100-S11) for antimicrobial susceptibility testing. Methodology for the serum bactericidal test was according to (Tentative Guideline) NCCLS M21-T, 1992. Methods for determining bactericidal activity of antimicrobial agents was according to (Tentative Guideline) NCCLS M26-T.1992. Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically. 3rd ed. NCCLS

M7-A3.1993. Protocols for evaluating dehydrated Mueller-Hinton agar were according to NCCLS M6-A, 1996. Performance standards for antimicrobial susceptibility testing were according to NCCLS M100-S8, 1998. The screening test for Oxacillin-resistant Staphylococci was according to NCCLS M7-A4. Performance standards for antimicrobial disk and dilution susceptibility tests for bacteria isolated from animals was according to (Approved Standard) NCCLS M31-A. Performance standards for antimicrobial susceptibility testing were according to NCCLS M100-S8.1998. Screening test for Oxacillin-resistant Staphylococci was according to NCCLS M7-A4 Susceptibility test panels.

## B. Confirmation of results

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In order to ascertain whether the result with inhibitor NGXT1914 was artifactual, both MRSA and MSSA were tested on Mueller-Hinton agar plates containing varying concentrations of NGXT1914. First, plates were prepared as above with the following concentrations of inhibitor compound: 0 µg/ml (DMSO controls), 1 µg/ml, 5 µg/ml, 10 µg/ml, and 25 µg/ml. Inhibitor concentrations were prepared such that all plates contained 25 µl total DMSO. For each of the two strains, 5 isolated colonies were picked from fresh overnight culture plates and used to inoculate a 0.85% NaCl solution. The turbidity of each culture was adjusted using 0.85% NaCl until the turbidity of each matched a 0.5 McFarland turbidity standard. Both strains were each swabbed onto both control and inhibitor plates. Plates were allowed to dry for 5 minutes and were placed into the incubator. Plates were read after 24 hours (12/7/01). The results were as follows:

Concentration (µg/ml NGXT1914)	Result
25 μg/ml	No growth at all for either strain
10 μg/ml	No growth at all for MRSA strain. Some small isolated colonies on the MSSA plate.
5 μg/ml	Only a few small colonies on the MRSA plate. Confluent growth on the MSSA plate.
1 μg/ml	Confluent growth on both plates.
Controls	Confluent growth on both plates.

### C. Conclusions

Inhibitor NGXT 1914 inhibits growth of both resistant and sensitive *Staph* strains, however it is more effective against the methicillin resistant strain. This compound was tested with other cell types (mammalian cell lines, plants (*Arabidopsis thaliana*) yeast, *Pseudomonas aeruginosa*) and has not inhibited growth of any cell line or organism at the concentrations tested. Since NGXT1914 is an ectophosphatase inhibitor, it is possible that *Staph*, particularly the MRSA, is dependent on a phosphatase that is an ideal substrate for NGXT1914. The results obtained indicated that NGXT1914 was more effective against MRSA versus MSSA than previously identified compounds.

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#### **EXAMPLE 2**

# Inhibition of Chemotherapy-Resistant Tumor Cells With An Ectophosphatase Inhibitor

In order to determine the effect of ectophosphatase inhibitors on tumor cells resistant to a chemotherapeutic agent, 2 breast cancer tumor cell lines were tested, a vinblastine resistant line (SW-13Vb003) and its vinblastine sensitive parent line, SW-13. A standard 4 day incubation at 37 °C and 5 %  $CO_2$  was used.  $IC_{50}$  tests (MTT) were done using standard methodology in 96 well plate format with inhibitor concentrations ranging from 0-90  $\mu$ g/ml (DMEM media). Results showed that 3 of the inhibitor compounds tested, NGXT194 (Formula VI), NGXT196 (Formula VIII), and NGXT1915 (Formula X), produced lower  $IC_{50}$  values with the resistant cell line than with the sensitive line. For NGXT194, SW-13 was sensitive at 20  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 10  $\mu$ g/ml. For NGXT1915, SW-13 was sensitive at 30  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 20  $\mu$ g/ml. For NGXT1915, SW-13 was sensitive at 20  $\mu$ g/ml, whereas the vinblastine resistant line SW-13Vb003 was sensitive at 20  $\mu$ g/ml.

Based on the inventors previous findings concerning the role of ectophosphatases in drug resistance, it seems likely that many resistant cells have upregulated phosphatases and that inhibiting a phosphatase critical to maintaining these cells could result in cell death. One hypothesis is that once these phosphatase enzymes are upregulated or are used in drug resistance their function becomes one that is vital to the cell. Since this phenomenon has been seen now in

a bacterial resistance model it might be expected that the ectophosphatase inhibiting compounds could preferentially kill other types of resistant cells or act as biocides to certain cells.

### **EXAMPLE 3**

# Over-Expression of Ectophosphatase Does Not Increase the Cellular Uptake of Adenosine

### A. Materials and Methods

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Transgenic Plant Construction: psNTP9 (Pisum Sativum apyrase, GenBank accession #Z32743) was subcloned as a Sall to Xbal fragment into pKYLX71 (Schardl et al, 1987, supra.). This plasmid was transformed into A. tumefaciens GV3101 [pMP90] pKYLX71 (Koncz and Shell, 1986), which was used to infect root call from Ws ecotype Arabidopsis thaliana under kanamycin selection (Valvekens et al., 1992). Four individual lines, obtained from separate calli, were propagated to the third generation (T3).

Subcellular Apyrase Distribution in Pea: Etiolated pea plumules served as the tissue source for nuclei and cytoplasm isolation as described by Chen and Roux (Plant Physiol. 81:609-612 (1986)). Plasma membrane was prepared from 30 g of pea root tissue (Zhu Mei Jun and Chen Jia; 1995, Acta Botanica Sinica 37:942-949). Western analysis was performed on 15-30 pg of protein from cytoplasm, plasma membrane and nuclei using a polyclonal anti-apyrase antibody raised against the purified pea protein (Tong et al., 1993). To determine the orientation of the pea apyrase in the pea plasma membrane, outside-out vesicles were prepared and the accessibility of the enzyme was determined by selective trypsin proteolysis, or membrane shaving, followed by activity assays and western blotting.

Phosphate uptake experiments and growth assays: In all experiments the growth media did not contain sugar, and plants were grown in sterile culture at 22°C under 150-200 pE of continuous light. Unless otherwise noted, a standard 0.8% agar medium (Becton Dickenson, Cockeysville, Md.) containing 100  $\mu$ M phosphate was used for uptake assays (Somerville *et al.*, 1982). Plants used for the phosphate uptake experiments were grown singly in 1 ml of the standard agar medium for 15 days prior to the experiment. On the day of the experiment,  $10 \,\mu$ Ci<sup>32</sup>p was applied to the side of the culture dish and allowed to diffuse through the agar. The lids of 95 mm x 15 mm tissue' culture dishes (Fisher, Pittsburgh, Pa.) were removed to facilitate transpiration.

After 18 hours, the plants were removed from the medium. The aerial portions of the plant not in contact with the agar were weighed and counted by liquid scintillation. For each plant the entire root system was carefully pulled from the agar and washed in ice cold water prior to scintillation counting. To measure the transport of the products of ATP hydrolysis by the transgenic plants overexpressing apyrase and by wild-type plants,  $[2,8^3H]ATP$ ,  $[\alpha^{32}P]ATP$ , and  $[\gamma^{32}P]ATP$  (Amersham) were fed to 15-day-old plants in separate treatments. All treatments were analyzed for significance in a T-test (n>4-6 for all groups, \*P<0.05, error bars = s.e.m.).

### B. Results

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Detection of the pea apyrase in nuclei and in purified plasma membrane: By immunoblot assay, the pea apyrase was found to be associated with nuclei and with purified plasma membranes but not with the cytoplasm (FIG. 1A). The contents of the lanes in FIG. 1A are as follows: Lane 1, cytoplasm; Lane 2, purified plasma membrane; Lane 3, purified nuclei; and Lane 4, pre-immune control of nuclei. Protease treatment destroyed both apyrase activity and antigenicity in outside-out plasma membrane vesicles. After trypsin treatment, the exterior face of the vesicle showed 30% of the ectophosphatase activity of the untreated sample. Endophosphatase activities were retained after trypsin treatment, indicating that the digest occurred exclusively on the exterior face of the membrane. These data indicated that the ectoapyrase was in fact being expressed in the extracellular matrix (ECM).

Enhanced Growth of Plants Over-Expressing Apyrase: Three of the four transgenic plant lines constitutively expressed psNTP9 under the control of the cauliflower mosaic virus 35S promoter and over an 18 hour period showed two to five times as much phosphate accumulation in shoots as wild type (FIG. 1B); Top, the total phosphate accumulated in the shoots of three independent transformants in an 18 hour 32p uptake assay at 2 mM phosphate; Bottom, a corresponding immunoblot performed on equal amounts of protein isolated from the ECM of three week-old wild-type Arabidopsis thaliana and the psNTP9 transgenics. Apyrase expressing plants also showed four times as much phosphatase activity in the extracellular matrix as the wild-type (FIG. 1 C). (Note, OE 1 in the FIG. stands for over-expression 1 transgenic line).

Transgenic plants preferentially transport the gamma phosphate of ATP: In order to address whether over-expression of ectoapyrase was stimulating the adenosine salvage pathway, the intracellular uptake of adenosine was measured both in the presence and absence of the overexpression of apyrase. The inability of apyrase to translocate either extracellular AMP or

adenosine was demonstrated by the low level of radiolabel accumulated in the transgenic plants fed [2,8³H]ATP and [a³²p]ATP (FIG. 2). The complete dephosphorylation of [2,8³H]ATP would result in a radiolabelled adenosine molecule while the complete dephosphorylation of [a³²p]ATP would result in a non-labeled adenosine label. FIG. 2A illustrates that plants overexpressing apyrase did not translocate radiolabelled adenosine (or byproducts of the dephosphorylation of [2,8³H]ATP) any more efficiently than plants not overexpressing apyrase (wild-type plants). FIG. 2B illustrates that plants overexpressing apyrase did not translocate AMP (or the byproducts of the dephosphorylated [a³²p]ATP) any more efficiently than wildtype plants. In comparison, feeding experiments where the y phosphate was labeled, the transgenics accumulated three times the amount of labeled phosphate as the wild-type (FIG. 2C). These data show that the over-expression of apyrase does not induce an increase in the uptake of adenosine and therefore its over-expression does not act to stimulate the adenosine salvage pathway.

#### **EXAMPLE 4**

# EctoPhosphatase is Involved in Drug Resistance in Yeast and Plants

### A. Materials and Methods

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Expression of AtPGP-1 in yeast: The AtPGP-1 cDNA (Arabidopsis thaliana MDR gene, accession #X61370) was subcloned into pVT101 downstream of the ADH promoter to create the AtPGP-1/pVT101 construct. AtPGP-1/pVT101 and pVT101 were transformed into Saccharomyces cerevisiae INVSCI (genotype: MATa, his3-Δl, 1eu2, trpl-289, ura3-52) and YMR4 (genotype: MATαhis3-11,15, leu2-3, 112ura3Δ5, can Res pho5, 3: ura3Δ1) by a PEG lithium acetate procedure (Eble, 1992) and selected on uracil dropout medium.

Yeast Growth: Yeast were grown at 30°C under conditions of constant selection for uracil auxotrophy. YNB (Bio101, Vista, CA) supplemented with CSM (uracil dropout) and 2% glucose was used to grow strains having pVT101 constructs. Cycloheximide (Sigma Chemical, St. Louis, MO.) was added to liquid media or spread on solid media to achieve a final concentration of 500 ng/ml. Nigencm (Sigma Chemical, St. Louis, MO.) was added to liquid media or spread on solid media to achieve a final concentration of 25 μg/ml. Yeast strains used in cycloheximide selection assays were always propagated in the presence of the cycloheximide on plates and then streaked onto new plates containing drug or no drug, such that induced

resistance existed in each strain at the time of the start of the assay. For selection assays on plates, single colonies were streaked; for selection in liquid media 0.01 ml of saturated culture was added to fresh media containing the drug. The plates shown in figures were grown for 3-5 days before photographs were taken. Yeast selection assays in liquid media were quantitated by turbidity as measured by absorbance at  $OD_{600}$ .

Expression of apyrase and AtPGP-1 in plants: The expression of apyrase in plants is as described above in Example 3. Similar methods were employed to express AtPGP-1 in Arabidopsis thaliana plants with the following modifications. The AtPGP-1 coding region was subcloned into a pBIN vector lacking the GUS gene as described in Sidler et al. (1998). This plasmid was then transformed into A. tumefaciens as described above, which was used to infect root calli to produce transgenic plants expressing AtPGP-1.

<u>Plant growth</u>: Arabidopsis thaliana seeds were sown in a solid germination media containing MS salt, 2% sucrose, 0.8% agar, and vitamins (Valvekens et al., 1992). For selection assays, cycloheximide was spread on the media to achieve a final concentration of 250 ng/ml. Plant growth was measured by germination percentage after 6-30 days.

### B. Results

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Effect of over-expression of AtPGP-1 in yeast: When a yeast mutant, YNIR4, which is deficient in two major extracellular phosphatases and tends to accumulate ATP extracellularly, was grown in a potent cellular toxin, cycloheximide, it did not grow whereas a wild-type yeast strain, INVSCI, did grow in the presence of cycloheximide (FIG. 3A). Surprisingly, expression of the plant multidrug resistance (MDR) gene, AtPGP-1, enabled the yeast mutant to grow in the toxin (FIG. 3B and FIG. 5A). The presence of AtPGP-1 in the wild-type yeast did not have any effect when grown in the presence of cycloheximide (FIG. 3B). The same result was obtained when the yeast strains were cultured in nigericin (FIG. 3C, 3D, FIG. 5B, 5C). In FIG. 3C and 3D, starting from the top of the dish clockwise, the cells are as follows: INVSCI (wild-type) overexpressing AtPGP-1, YNM4 containing the vector alone, YMR4 overexpressing AtPGP-1, and INVSCI containing the vector alone. When grown without drug, all the cells grow (FIG. 3C). However, when grown in drug, only the YMR4 containing vector alone shows reduced growth. The survival of the AtPGP-1 transformed strains was due to the ability of the NIDR1 channel to efflux the toxin, hence lowering the actual cellular concentration of the poison cycloheximide. The sensitivity of the untransformed mutant to the drug is likely due to a loss of

the ATP gradient below a point at which endogenous transporters, similar to AtPGP-1 can function.

Effect of over-expression of AtPGP-1 in plants: The over-expression of AtPGP-1 was able to confer resistance to cycloheximide in plants (FIG. 4A and 6) and to the cytokinin, N<sub>6</sub>-(2isopentenyl) adenine (21P) (FIG. 4B). These results had not been observed previously and in fact, the prior art actually teaches away from this finding suggesting that over-expression of plant AtPGP-1 is not involved in drug resistance (Sidler. et al., 1998). Therefore, this result was particularly unexpected in plants. Additionally, since Arabidopsis plants overexpressing AtPGP-1 are able to grow in both cycloheximide and cytokinin, this suggests that the conference of drug resistance by AtPGP-1 is likely to be seen with other chemicals as well and is not an isolated phenomenon.

Effect of over-expression of apyrase on drug resistance in plants: Another unexpected result was obtained when the plant apyrase gene was over-expressed in plants. Over-expression of apyrase in plants resulted in the conference of resistance to cycloheximide (FIG. 4A and 6). The same result was obtained when the plants were grown in the presence of a cytokinin, N<sub>6</sub>-(2isopentenyl) adenine (FIG. 4B). In fact, over-expression of apyrase is surprisingly able to raise the germination rate above the level obtained by the over-expression of the MDR gene AtPGP-1 (FIG. 4A, 4B and 6). Just as under-expression of phosphatase activity in a yeast mutant lacking two potent extracellular phosphatases diminished its resistance to cycloheximide (FIG. 3A), over-expression of a powerful extracellular ATP phosphatase in plants bolstered resistance. The fact that higher resistance was found in plants genetically manipulated only with respect to phosphatase over-expression and not MDR1, indicates that there likely exists other ATP-symporters used in detoxification in addition to MDR1. Minimally, the stronger ATP gradient set up by apyrase in the transgenic plants affects the kinetics of the wild-type MDRI.

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#### **EXAMPLE 5**

### ATP Efflux in Yeast and Plants Overexpressing AtPGP-1

### A. Materials and Methods

ATP collection: Yeast cells used in the luciferase assays were grown for two days and then transferred to Lsh media at the time of the assay. From this time forward, the cells were kept at room temperature on a rotator. Every hour a 1 ml aliquot was taken, the cells in the

aliquot were counted on a hemocytometer, a methylene blue viability assay was performed (Boyum and Guidotti, 1997), the cells were centrifuged, and the supernatant was stored in liquid nitrogen until all the aliquots were collected. For luciferase assays involving plants, *Arabidopsis thaliana* plants were grown in sterile culture at 22°C under 150-200 pE of continuous light for at least 15 days. Foliar ATP was collected by placing a single 30 pl drop of luciferase buffer (Analytical Luminescence Laboratory, Cockeysville, Md.) on a leaf and, without making direct physical contact with the plant, the droplet was immediately collected and snap frozen. For each leaf, the area was approximated as an integrated area of a 2-D image of the leaf using NIH 1.52 software (Shareware, NIH).

Luminometry: Samples were reconstituted to a 100 pl final volume in FirelightTM buffer (Analytical Luminescence Laboratory, Cockeysville, MD). After the buffer was added, all samples were kept on ice. ATP standards were reconstituted in 100 µl of FirelightTM buffer and the standards and sample were loaded into a 96-well plate and read on an automated Dynex Technologies Model MLX luminometer (Dynex Technologies, Chantilly, Va.). Samples were processed with the addition of 50 µl of FirelightTM enzyme (Analytical Luminescence Laboratory, Cockeysville, MD) followed by a reading delay of 1.0 second and an integration time of 10 seconds. Output was taken as an average for the integration time and then averaged for multiple samples. The sample handling time was less than 2 hours.

Pulse Chase experiments: Yeast were grown to saturation in liquid medium, as described above, centrifuged, and resuspended in fresh medium containing 1  $\mu$ Ci/ml <sup>3</sup>H-adenosine (Amersham, Arlington Heights, II.). The cells were rotated at room temperature for 20 minutes to allow adenosine uptake. After 20 minutes the cells were centrifuged. The pellet was washed twice in ice cold medium, resuspended in culture medium at room temperature, divided equally between five types (five per cell line), and placed on a rotator. Every ten minutes a separate tube from each cell line was centrifuged and the pellet and supernatant were placed in separate scintillation vials. The efflux activity was expressed as the ratio of counts in the supernatant to counts in the pellet.

### B. Results

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The ATP effluxed by the plant MDR1, AtPGP-1, over-expressed in yeast: In wild-type cells there is a steady-state level of ATP in the extracellular fluid, which is to say that the ATP outside the cells is rapidly degraded by phosphatases and does not accumulate over time (FIG.

7). However, the expression of the AtPGP-1 doubled this steady-state level (FIG. 8). If the yeast mutant, YMR4, which is deficient in extracellular phosphatase activity, is analyzed, there was a noticeable accumulation of ATP in the extracellular fluid compared to a control mutant transformed with empty plasmid pVT101 (FIG. 9). In addition to ATP measurements based on luminometry performed on a kinetic time-scale of hours, an earlier differential ATP efflux in MDRI expressing cells by pulse chase experiments was demonstrated (FIG. 10). Furthermore, Arabidopsis thaliana plants from two independently transformed lines, that constitutively express the AtPGP-1 protein, showed a significant accumulation of ATP on their leaf surfaces (FIG. 11). Taken together, these data demonstrate the absolute ability of plant MDRI, AtPGP1, to transport ATP from inside the cell to the outside. Moreover, these data show that ATP efflux channels and phosphatases both have roles in the steady-state level of ATP outside of the cell. This is the first demonstration of the importance of extracellular ATP steady-state levels, and the importance of an ATP gradient across biological membranes in the modulation of drug resistance.

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### **EXAMPLE 6**

# A Two-Component System is Found in Arabidopsis Plants

### A. Materials and Methods

Plant Growth: Arabidopsis seeds were sown in a solid germination media containing MS salts (Sigma Chemical, St. Louis, Mo.), 2% sucrose, 0.8% agar, and vitamins (Valvekens et al., 1992). For selection assays, one of the following, or a combination of both, was added to media (cooled to less than 50°C before adding) immediately prior to pouring into plates: cycloheximide at a final concentration of 500 ng/ml;α,β-methyleneadenosine 5'-diphosphate at a final concentration of 1mM. Plant growth was measured by germination percentage after 10-20 days.

All other materials and methods were discussed above in Example 4.

### B. Results

Effects of phosphatase inhibitor on plants overexpressing AtPGP-1: FIG. 12 shows that when wild-type and AtPGP-1 overexpressing (MDR OE) Arabidopsis thaliana plants were either treated with nothing (lane 1), cycloheximide (lane 2), a,(3-methyleneadenosine 5'-diphosphate (phosphatase inhibitor) (lane 3), or cycloheximide and phosphatase inhibitor (lane 4), both the wild-type and the AtPGP-1 overexpressing plants were affected similarly by the presence of

phosphatase inhibitor. While the AtPGP-1 overexpressing plants grew significantly better in the presence of cycloheximide alone with a 50% germination rate for the AtPGP-1 overexpressing plants and a 2% germination rate for the wild-type plants, similar germination rates were seen for both the AtPGP-1 overexpressing and wild-type plants in the presence of either phosphatase inhibitor alone (83% and 90% germination respectively) or cycloheximide plus phosphatase inhibitor (no germination at all). The addition of phosphatase inhibitor surprisingly destroys the ability of the AtPGP-expressing plants to grow in the presence of cycloheximide. These data suggest that phosphatases are involved in the conference of drug resistance in plants and that there is a two-component system similar to that demonstrated in yeast in Example 4 and 5 above in which an MDR-like protein and an ATP-gradient-maintaining ectophosphatase are important in modulating drug resistance.

#### **EXAMPLE 7**

### The ATP Gradient Directly Effects Drug Resistance in Cells

### A. Materials and Methods

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Cell lines: Cell lines were the same as those described above in Example 4 and 5. YMR4 MDRI is the phosphatase mutant yeast strain overexpressing AtPGP-1; YMR4 pVT101 contains vector alone; INVSC MDRI is the wild-type yeast strain overexpressing AtPGP-1; and INVSC pVT101 contains vector alone.

Selection in drug: To create drug resistant yeast strains, all four cell lines were grown up in the presence of 500 ng/ml of cycloheximide, and transferred to other cycloheximide containing plates after a period of four to six days. This transfer of cell lines and subculturing continued such that the yeast cells grew in the presence of cycloheximide for a period of at least a month. Cells cultured in media alone: To create cell lines that had not been preselected for their ability to grow in drug, yeast strains were grown on plates containing YNB (Bio101, Vista, CA) without uracil (-URA) to maintain the presence of the vector (which supplies URA) without any drugs added.

Growth of cells in suspension for ATP and drug selection experiments: Cells were transferred into 5 ml YNB -URA liquid media for turbidity measurements. All cell lines (both non-drug selected and drug-selected) were grown in media with the addition of either nothing, 500 ng/ml cycloheximide, 100 mM ATP, or 500 ng/ml cycloheximide and 100 mM ATP. Turbidity readings were taken after 48 hours.

Growth of cell lines in suspension for salvage pathway experiments: All cell lines were grown in liquid media either containing drug (for the drug selected lines) or not containing drug (for the non-drug selected lines). When the cultures reached a turbidity of 1.00 as measured at a wavelength of 600 in a spectrophotometer ( $OD_{600} = 1.00$ ), 10  $\mu$ l of each culture was then removed and placed in either media with nothing added, 3 mM potassium phosphate; 3 mM adenosine; 9 mM potassium phosphate and 3 mM adenosine (for controls); potassium phosphate and cycloheximide; adenosine and cycloheximide; adenosine, cycloheximide, and potassium phosphate. Cell cultures were further grown for 72 hours, and their turbidity was determined by  $OD_{600}$  readings on a spectrophotometer.

Growth of cell lines for nigericin experiments: Drug selected lines were removed from cycloheximide containing plates and placed in 5 ml liquid media containing 5 ng/ml cycloheximide. Cell cultures were allowed to grow until they reached an OD<sub>600</sub> reading of 1.00, and then 10 μl from each culture was removed and transferred to culture tubes containing 5 ml of liquid media and 25 pg/ml nigericin. OD600 readings were recorded daily for a period of up to 72 hours to determine growth.

### B. Results

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An ATP gradient is critical in MDR: The importance of the ATP gradient in MDR in yeast cells was demonstrated by showing that the growth of cells which were previously grown in drug and had developed resistance to the drug, were not able to grow in high levels of ATP unless they were overexpressing AtPGP-1 (FIG. 13). Cells which had not been previously selected in drug were able to grow in the presence of high levels of ATP (FIG. 13). These data emphasize that the loss of an ATP gradient is previously resistant cell lines abolishes resistance. This result is new to the understanding of MDR and has led to vast insight into the understanding of the mechanism by which MDR-ABC transporters confer resistance to cells and to methods to modulate such resistance. Moreover, when cells were grown in high levels of ATP and drug (cycloheximide), even the cell lines which had previously showed resistance to drug were unable to grow in the presence of drug and ATP. These data indicate that when the ATP gradient across biological membranes is destroyed (by the presence of high extracellular levels of ATP), efflux a of drugs cannot be achieved and therefore, drug resistance is abolished. In summary, the multidrug resistance channel is not functional without an ATP gradient.

The drug resistance is not due to an adenosine salvage pathway: In order to address whether the involvement of a nucleotide salvage pathway was responsible for the results of the present invention, yeast cells were cultured in the presence of extracellular adenosine and extracellular phosphate. The acid phosphatase yeast mutant, YMR4, was selected because its decreased ectophosphatase activity makes it an ideal candidate for studying the effect of extracellular nucleotides on growth. If an adenosine salvage pathway were involved, then the presence of extracellular adenosine or possibly phosphate should help cells recoup the intracellular ATP losses due to ATP/drug efflux and should help cells grow in the presence of drug whether or not the cells were overexpressing AtPGP-1. In contrast, however, the addition of adenosine or phosphate to the media did not enhance resistance to the cells (FIG. 14). In fact, cells overexpressing AtPGP-1 grew best in drug alone, with the addition of adenosine and/or phosphate being slightly inhibitory. Furthermore, cells which did not express AtPGP-1 were unable to grow in drug regardless of the presence of adenosine and/or phosphate. These data suggest that an adenosine salvage pathway is not the principal mechanism at work in the present invention.

#### **EXAMPLE 8**

# High Throughput Screen for Isolating Apyrase Inhibitors

### A. Materials and Methods

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Small Molecule Library: A small molecule library (DIVERSet format F), which was specifically constructed to maximize structural diversity in a relatively small library (9600 compounds), was obtained from ChemBridge Corporation (San Diego, CA). The small molecules (supplied in 0.1 mg dehydrated aliquots) were dissolved in DMSO, transferred to a 96 well plate, and tested for their ability to inhibit apyrase activity.

The assay: A stringent screen to test the ability of small molecules to disrupt the ATPase activity of the apyrase enzyme was developed based on phosphate-mobylate complexation. The assay was a modification of a phospholipase assay developed by Hergenrother *et al.* (1997): Under normal conditions, the apyrase enzyme liberates phosphate from ATP present in the reaction. The liberated phosphate quickly forms a complex upon addition of a small amount of acidified molybdate and ascorbate allowing for the production of a very dark blue color (the less phosphate liberated, the less blue color). Control reactions were performed with heat inactivated apyrase enzyme. Color intensity was detected on an Alpha Imager 2000 with AlphaEaseTM

software (Alpha Innotech, San Leandro, CA). Color changes were also evident by the naked eye. A Biomek 2000 robot (Beckman, Fullerton, CA) was used for screening the 9600 samples.

To each well of the 96 well plates containing a small molecule from the library, 100 pI of reaction buffer (60 mM HEPES, 3 MM MgC1<sub>2</sub>, 3 mM CaCl<sub>2</sub>, 3 mM ATP pH 7.0) was added. The apyrase (potato apyrase grade VI, Sigma Chemical, St. Louis, MO) enzyme (0.1 units) was added in a 5 pI volume and the reaction was allowed to proceed at room temperature for 60 minutes.

Three buffers were used to visualize activity: Buffer A: 2% Ammonium molybdate in water Buffer B: 1 I% Ascorbic acid in 37.5% aqueous TCA. Buffer C: 2% trisodium citrate, 2% acetic acid.

Immediately before developing the assay, buffers A and B were mixed in a 1:1 \_5 ratio. 50 pl of A:B was added to each well. The 96 well plate was then vibrated on a table surface to mix the solution. The deep blue color developed after approximately 2 minutes. After 2 minutes, 50 p.l of buffer C was added to each well and the blue color became darker, increasing the sensitivity of the assay. The color intensified for up to one hour with no accompanying color change in the control wells containing heat inactivated apyrase enzyme. The color intensity for a single plate was measured on an Alpha Imager 2000 with AlphaEaseTM software (Alpha Imotech, San Leandro, CA).

### B. Results:

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Nineteen positives were identified from the 9600 compound DIVERSet library. Dose response assays revealed that fourteen showed weak inhibition, two showed medium inhibition (Formulas N and V), and three showed relatively strong inhibition (Formulas I, II and III).

\* \* \*

All of the compositions and methods disclosed and claimed herein can be made and executed without undue experimentation in light of the present disclosure. While the compositions and methods of this invention have been described in terms of preferred embodiments, it will be apparent to those of skill in the art that variations may be applied to the compositions and methods and in the steps or in the sequence of steps of the method described

herein without departing from the concept, spirit and scope of the invention. More specifically, it will be apparent that certain agents which are both chemically and physiologically related may be substituted for the agents described herein while the same or similar results would be achieved. All such similar substitutes and modifications apparent to those skilled in the art are deemed to be within the spirit, scope and concept of the invention as defined by the appended claims.

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The following references, to the extent that they provide exemplary procedural or other details supplementary to those set forth herein, are specifically incorporated herein by reference.

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